


12/15/79 Rap-


1069

COLUMN WRITE®

WR	1	2	3	4
1	u1	74 3 374	4	✓
2	2	uPD416C2	20	
3	3	↑	20	
4	4		↑	
5	5	sub. parts		
6	6	(MK4116-3)(F16K4DC)		
7	7		↓	
8	8		↓	
9	9	uPD416C2	20	✓
10	10	74 3 241	3	✓
11	11	74 3 374	4	
12	12	uPU416C2	20	✓
13	13	Δ	↑	
14	14		↑	
15	15	sub. parts		
16	16	(MK4116-3)(F16K4DC)		
17	17		↓	
18	18		↓	
19	19	uPD416C2	20	✓
20	20	74LS166 (16 PIN SOCKET)	10	
21	21	74 3 374	5	
22	22	74 3 241	3	
23	23	uPD416C2	20	
24	24	↑	↑	
25	25		↑	
26	26	sub. parts		
27	27	(MK4116-3)(F16K4DC)		
28	28		↓	
29	29		↓	
30	30	uPD416C2	20	
31	31	74 3 374	5	
32	32	uPD416C2	20	
33	33	↑	↑	
34	34		↑	
35	35	sub. parts		
36	36	(MK4116-3)(F16K4DC)		
37	37		↓	
38	38		↓	
39	39	uPD416C2	20	
40	40	74LS166 (16 PIN SOCKET)	10	




Three Rivers Computer



REC'D memory found
12/15/79 Rap
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LINE NO.	DESCRIPTION	QTY
1	41 74 3 374	8
2	42 uPD416C2	20
3	43	
4	44	
5	45 sub parts	
6	46 (MK4116-3)(F16K4DC)	
7	47	
8	48	20
9	49 uPD416C2	20
10	50 74 3 374	7
11	51 74 3 374	5
12	52 uPD416C2	20
13	53	
14	54	
15	55 sub parts	
16	56 (MK4116-3)(F16K4DC)	
17	57	
18	58	
19	59 uPD416C2	20
20	60 74 3 166 (16 PIN SOCKET)	9
21	61 SPARE	
22	62 uPD416C2	20
23	63	
24	64	
25	65 sub. parts	
26	66 (MK4116-3)(F16K4DC)	
27	67	
28	68	
29	69 uPD416C2	20
30	70 74 3 374	7
31	71 74 3 374	14
32	72 uPD416C2	20
33	73	
34	74	
35	75 sub. parts	
36	76 (MK4116-3)(F16K4DC)	
37	77	
38	78	
39	79 uPD416C2	20
40	80 76 3 166 (16 PIN SOCKET)	9

	Three Rivers Computer		
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COLUMN WRITE

			1	2	3	4
1	81	74 S 280	6			
2	82	74 S 374	4			
3	83	uPD416C2	20			
4	84		↑			
5	85					
6	86	sub. parts				
7	87	(MK4116-3)(F16K4DC)				
8	88					
9	89		↓			
10	90	uPD416C2	20			
11	91	74LS166 (16 PIN SOCKET)	18			
12	92	74 S 374	8			
13	93	74 S 374	14			
14	94	74 S 374	4			
15	95	uPD416C2	20			
16	96		↑			
17	97					
18	98					
19	99					
20	100					
21	101	sub. parts				
22	102	(MK4116-3)(F16K4DC)				
23	103					
24	104					
25	105					
26	106					
27	107					
28	108					
29	109		↓			
30	110	uPD416C2	20			
31	111	74LS166 (16 PIN SOCKET)	18			
32	112	74 S 374	8			
33	113	74 S 374	5			
34	114	uPD416C2	20			
35	115		↑			
36	116	sub. parts				
37	117	(MK4116-3)				
38	118	(F16K4DC)				
39	119		↓			
40	120	uPD416C2	20			

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Three Rivers Computer	
ITEM MEM 1016	QUANTITY 500 MEM-C
DESIGNED BY	DATE 7-12-80
CHECKED BY	DATE 7-12-80
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REV C 7/17/80 88
REV B 7/17/80 88

PERU Memory Board
12/15/79 Rap
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COLUMN WRITE

			1	2	3	4
1	121	MPD416C2 (FIGK4DC)	20			
2	122	74 \$ 374	7			
3	123	MPD416C2	20			
4	124	↑	↑			
5	125					
6	126	sub. parts				
7	127	(MK4116-3)				
8	128	(FIGK4DC)				
9	129	↓	↓			
10	130	MPD416C2	20			
11	131	74 \$ 166 (16 PIN SOCKET)	9			
12	132	74 \$ 374	7			
13	133	74 \$ 74	14			
14	134	74 \$ 374	5			
15	135	MPD416C2	20			
16	136	↑	↑			
17	137					
18	138	sub. parts				
19	139	(MK4116-3)				
20	140	(FIGK4DC)				
21	141	↓	↓			
22	142	MPD416C2	20			
23	143	SPARE				
24	144	74 \$ 51	3,6			
25	145	MPD416C2	20			
26	146	↑	↑			
27	147					
28	148	sub. parts				
29	149	(MK4116-3)				
30	150	(FIGK4DC)				
31	151	↓	↓			
32	152	MPD416C2	20			
33	153	74 \$ 166 (16 PIN SOCKET)	9			
34	154	74 \$ 250	6			
35	155	MPD416C2	20			
36	156	sub. parts				
37	157	(MK4116-3)				
38	158	(FIGK4DC)				
39	159	↓	↓			
40	160	MPD416C2	20			

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Three Rivers Computer	
MEMIC LIST	MEMIC LIST
DATE: 12/15/79	TIME: 2:25 PM
PAGE 1 OF 1	

COLUMN WRITE®

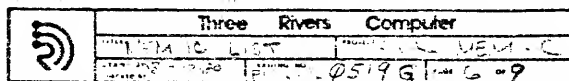
Line	Part Number	Description	Quantity
1	161	MPD416C2 (MK4116-3)	20
2	162	MPD416C2 (MK4116-3) (FIGK4DC)	20
3	163	74 \$175	6
4	164	74 \$153	6
5	165	74 \$258	14
6	166	74 \$74	3
7	167	MPD416C2	20
8	168		↑
9	169	sub parts	
10	170	(MK4116-3)	
11	171	(FIGK4DC)	
12	172		↓
13	173		↓
14	174	MPD416C2	20
15	175	74 \$139	6, 26
16	176	74 \$74	3
17	177	74 \$88	3
18	178	STATIC	
19	179	74 \$24	16
20	180	↓	16
21	181		16
22	182		16
23	183		17
24	184		17
25	185		17
26	186		17
27	187		18
28	188		18
29	189		18
30	190		15
31	191		19
32	192		19
33	193		19
34	194	74 \$84	19
35	195	74 \$258	15
36	196	↑	15
37	197		14
38	198	↓	14
39	199	74 \$258	14
40	200	STATIC	

PERQ Memory Board
12/15/79 Rap
6079

Item #	Part #	QTY
1	201	74 \$ 112
2	202	74 \$ 112
3	203	74 \$ 112
4	204	74 \$ 112
5	205	74 \$ 374
6	206	74 \$ 37
7	207	74 \$ 112
8	208	74 \$ 163
9	209	74 \$ 374
10	210	74 \$ 112
11	211	74 \$ 374
12	212	74 \$ 197
13	213	74 \$ 374
14	214	74 \$ 112
15	215	74 \$ 112
16	216	74 \$ 112
17	217	74 \$ 112
18	218	HMI-7649-B5546 (20 PIN SOCKET)
19	219	74 \$ 175
20	220	74 \$ 32
21	221	74 \$ 374
22	222	74 \$ 174
23	223	74 \$ 197
24	224	74 \$ 393
25	225	74 \$ 197
26	226	74 \$ 374
27	227	74 \$ 112
28	228	74 \$ 30
29	229	74 \$ 32
30	230	HMI-7649-B5546 (20 PIN SOCKET)
31	231	74 \$ 112
32	232	74 \$ 74
33	233	74 \$ 163
34	234	74 \$ 240
35	235	74 \$ 197
36	236	74 \$ 393
37	237	74 \$ 138
38	238	74 \$ 112
39	239	74 \$ 11
40	240	74 \$ 112

REV D 10/14/50 DIV

REV E 10/24/00 A-24 FOR.



WRITE

			1	2	3	4
1	241	XTAL K1100A (14 PIN SOCKET)	24			
2	242					
3	243	74\$04	26, 25			
4	244	74L\$163	26			
5	245	HMI-7649-B5546 (CAM 27\$29) (20 PIN SOCKET)	26			
6	246	74\$374	26			
7	247	74\$225	13			
8	248	74\$225	13			
9	249	74\$374	13			
10	250	74\$112	12			
11	251	74\$00	12, 23, 25			
12	252	74\$112	12			
13	253	74\$20	12			
14	254	74\$112	26			
15	255	74\$162	26			
16	256	HMI-7649-B5546 (CAM 27\$29) (20 PIN SOCKET)	26			
17	257	74\$374	26			
18	258	74\$374	11			
19	259	74\$32	13, 25			
20	260	S.M.C.				
21	261	7643-5 (18 PIN SOCKET)	11			
22	262	7643-5 (18 PIN SOCKET)	11			
23	263	7643-5 (18 PIN SOCKET)	11			
24	264	74\$374	11			
25	265	74\$225	11			
26	266	74\$225	11			
27	267	74\$32	11, 12			
28	268	74\$195	12			
29	269	74\$195	12			
30	270	74\$37	12, 25			
31	271	S.M.C.				
32	272	74\$74	26			
33	273	74\$08	26			
34	274	74\$74	26			
35	275	74\$280	3			
36	276	74\$280	3			

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Three Rivers Computer	
MEM 02	FILE 02
DATE 10/14/80	TIME 10:20
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REV D 10/14/80 DIV

CO. CAN WRITE

7/17/80

PRQ-PCB-MEM-C

RESISTORS

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Resistor	Value	Page
R1	RC07GF102J 1K	3
R2	REMOVED ON ECO MEM-C-007	
R3	RC07GF102J 1K	3
R4	RC07GF470J 47 Ω	9
R5	RC07GF102J 1K	6
R6	RC07GF102J 1K	14
R7	785-3-R33 (33 Ω) (4310R-102-330)(33 Ω)	16
R8		↑
R9		↑
R10		16
R11		17
R12		↑
R13	NOTE: ANOTHER SUITABLE SUBSTITUTE IS 785-3-R22(22 Ω)	↑
R14		17
R15		18
R16		↑
R17		↑
R18		18
R19		19
R20		↑
R21		↑
R22	785-3-R33 (33 Ω) (4310R-102-330)	19
R23	RC07GF102J 1K	25
R24	JA41J1 THERMISTOR	23
R25	RC07GF102J 1K	14
R26		22
R27		22
R28		23
R29		26
R30	RC07GF102J 1K	12
R31	RC07GF330J 33 Ω	26
R32	RC07GF102J 1K	12
R33	RC07GF330J 33 Ω	26
R35	RC07GF102J 1K	26
R36		27
R37	RC07GF102J 1K	24
R38	RC07GF330J 33 Ω	24
R39	RC07GF100J 10 Ω	24
R40	CB4G-75 4.7 Ω	24

3

Three Rivers Computer	
DESIGNED BY	PRQ-MEM-C
CHECKED BY	7/17/80
DATE	7/17/80
FILE	PL D513E
REV	3 of 9

7/16/80 VS

PRQ-PCB-MEM-C

COMPONENTS

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WRITE @
COLUMN

1 2 3 4

1	D 1	REMOVED ON ECO. MEM-C-007		
2	D 2	1N4004	24	
3	D 3	1N9004	24	
4	C 1	DD270 27pf	12	
5	C 2	DD102 .001uf	24	
6	C 3	.01mf	24	(THIS CAPACITOR IS ONE OF THE 169 BYPASS LISTED BELOW)
7	C 4	DD101 100pf	24	
8	C 5	DD181 180pf	24	
9				
10	QTY	CAPACITOR		
11	154	202A0022.5M1 BYPASS 2.2 TANTULUM		
12	169	CY15C103M BYPASS .01		
13				
14	L 1	WEE-1.0uH 1uH	24	
15	L 2	WEE-1.0uH 1uH	24	
16	L 3	6317-4 (coil)(0.08uH)	24	
17				
18	Q 1	2N3866	24	
19	Q 2	LM 79L05ACZ	20	
20	1	514AG37D or 814AG11D socket	U241	
21	8	516AG37D or 816AG11D socket	U20, 40, 60, 80, 91, 111, 131, 153	
22	3	518AG37D or 818AG11D socket	U261, 262, 263	
23	4	520AG37D or 820AG11D socket	U218, 230, 245, 256	
24				
25				
26	1	3041 SPACER	(METAL BODY TRANSISTOR [Q1] SPACER)	
27			INSULATED SPACER TO LIFT Q1 OFF	
28			TRACES OF BOARD.	
29				
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REV F 1/15/81 RAC

REV E 1/15/81 STV

REV D 10/24/80 DW



Three Rivers Computer

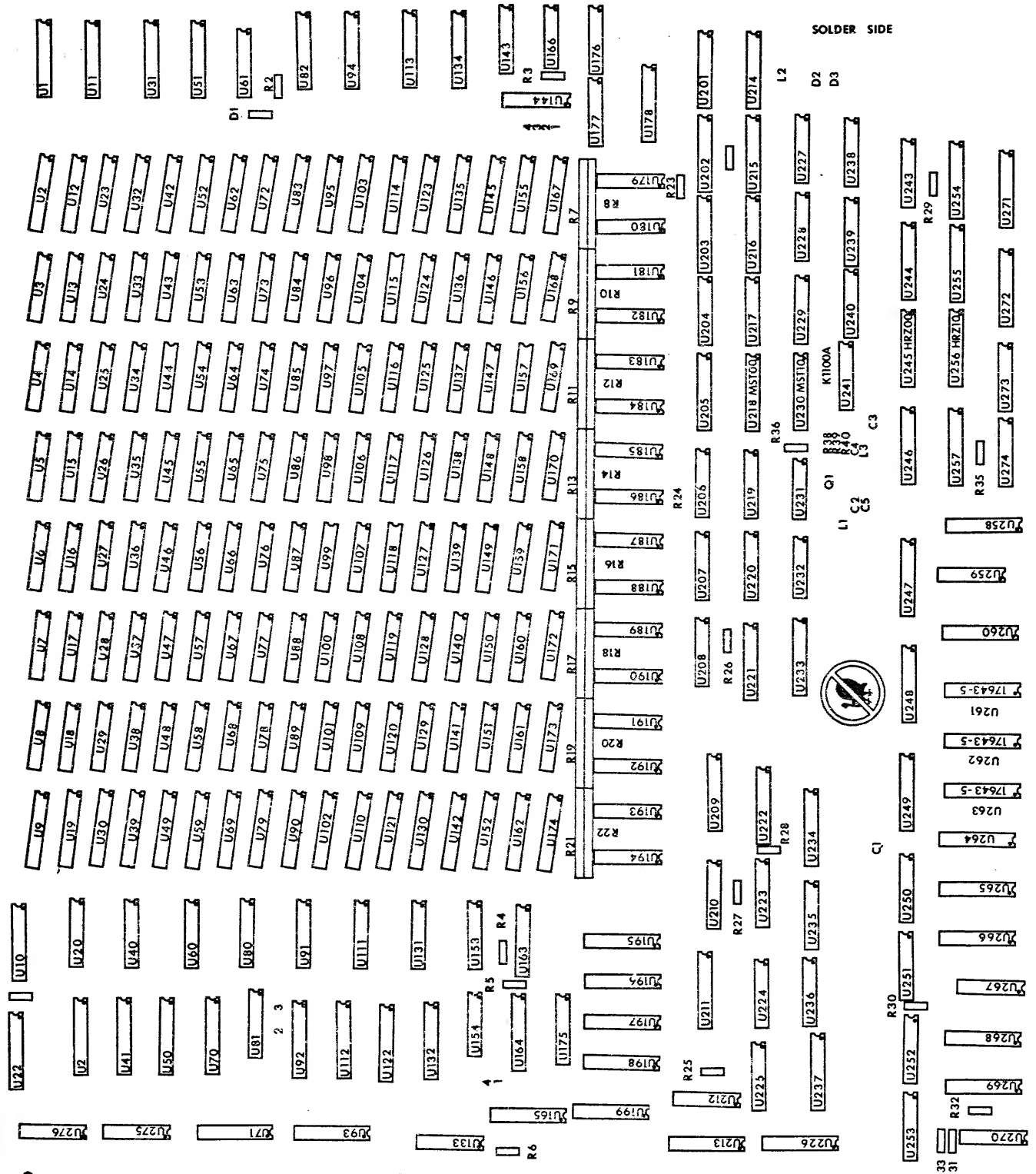
MEMORANDUM
DATE: 10/24/80 BY: STV
PAGE 9 of 9

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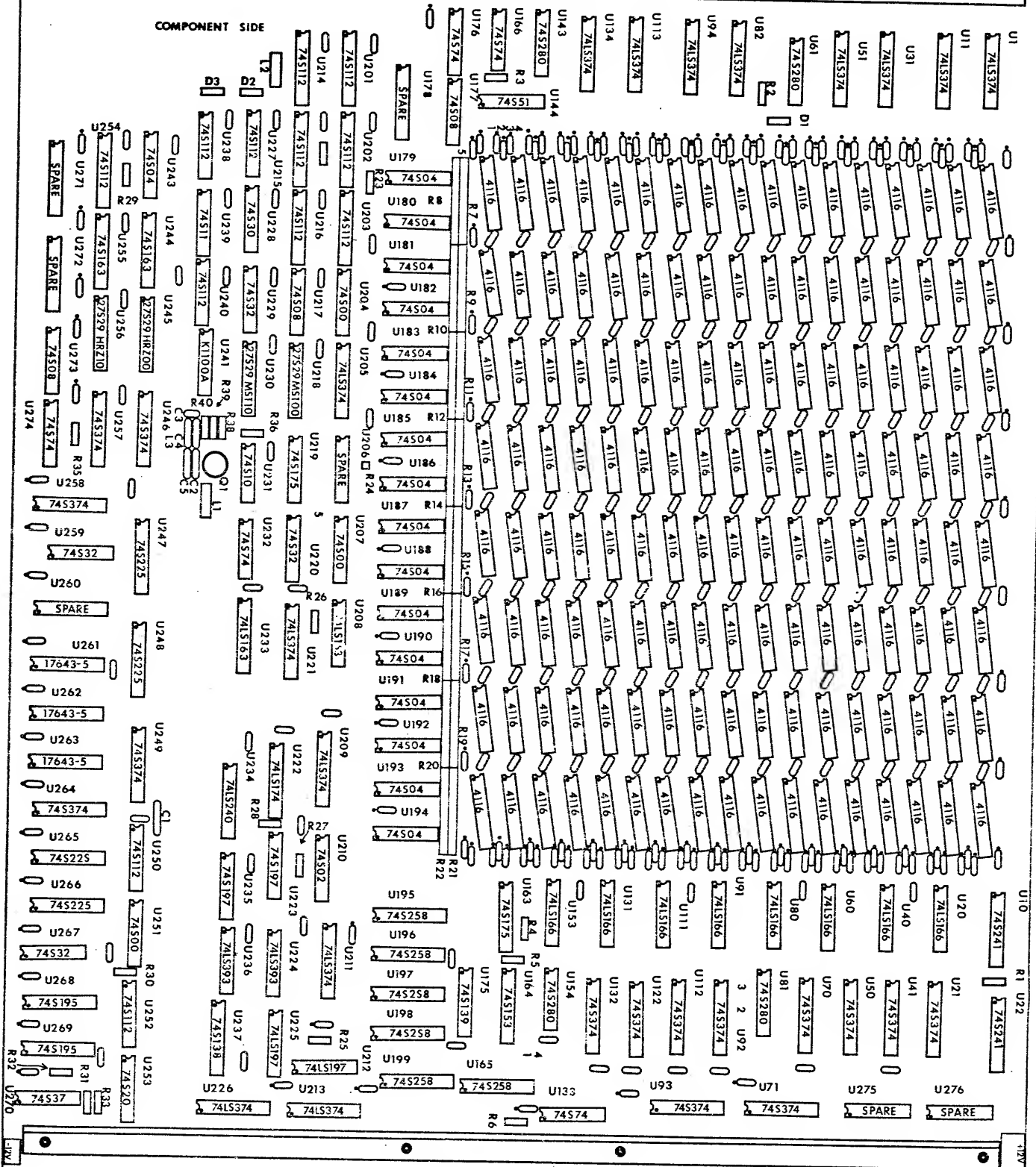
PRQ-SK4-MEM-C



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PRQ-SKI-MEM-C

COMPONENT SIDE




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SUBASSEMBLY DIRECTORY


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PRQ-SC-0485-A	MEM Block Diagram	1
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PRQ-SC-0487-H	Data Input -- Parity	3
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Three Rivers Computer	
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PRQ-PL-0534-A	"	5
PRQ-PL-0535-A	"	6
PRQ-SD-0560-D	Subassembly Directory	1
PRQ-SD-0561-D	Subassembly Directory	2
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	Three Rivers Computer		
	TITLE: MEM-C SUB DIR DRAWN BY: J.T. CHECKED BY: J.T.	DATE: 11/21/83	PAGE 2 OF 2

GATE UTILIZATION

PRQ-PCB-MEM-C

LEGEND

INPUT

OUTPUT

1, 2 - 3, 4

74S00 U251

1, 2-3 23
4, 5-6
10, 9-8 25
13, 12-11 12

74S04 U243

1-2
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13-12

74S32 U259

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U274

U272

1, 2, 3, 4-5, 6
13, 12, 11, 10-9, 8

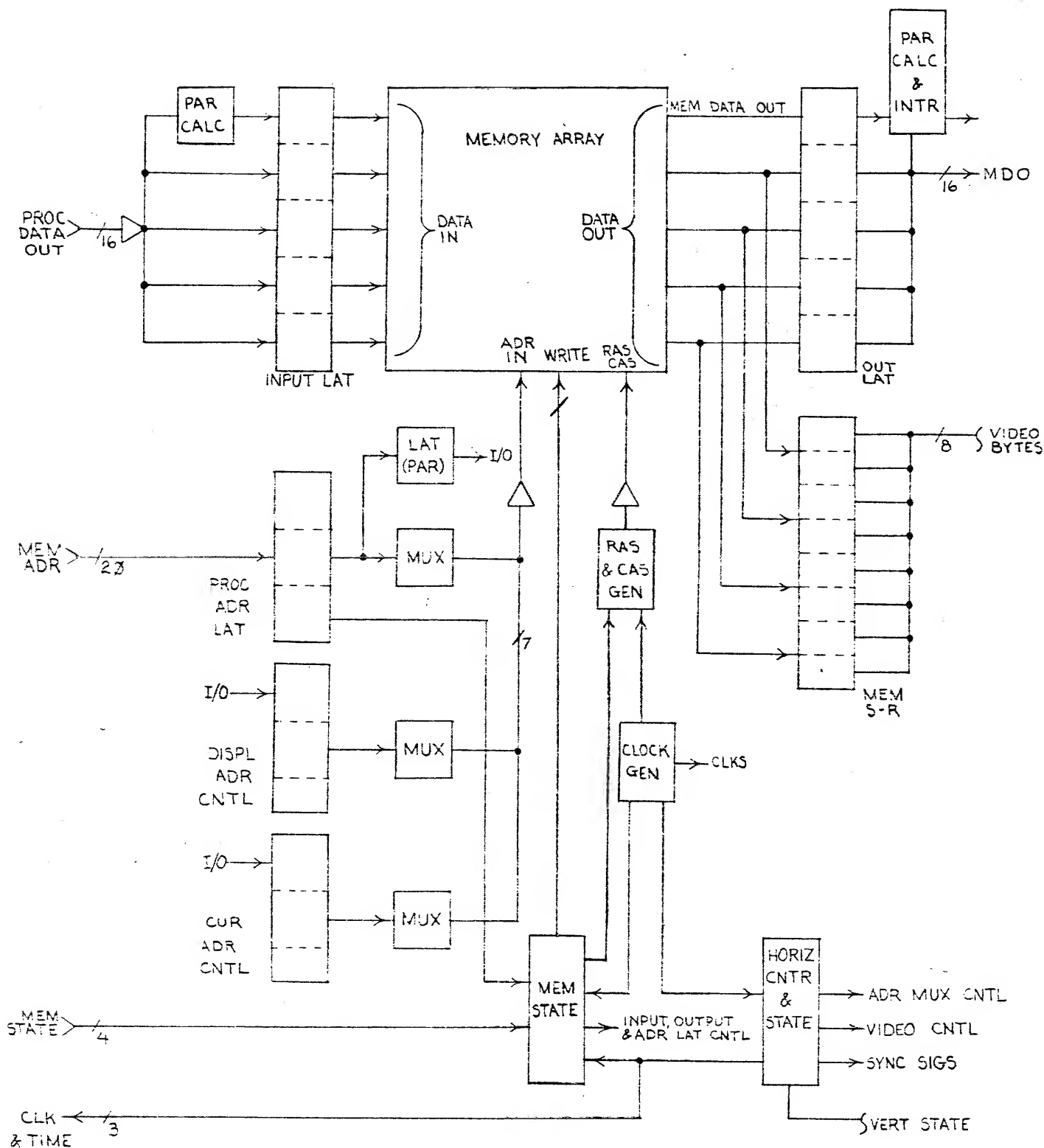
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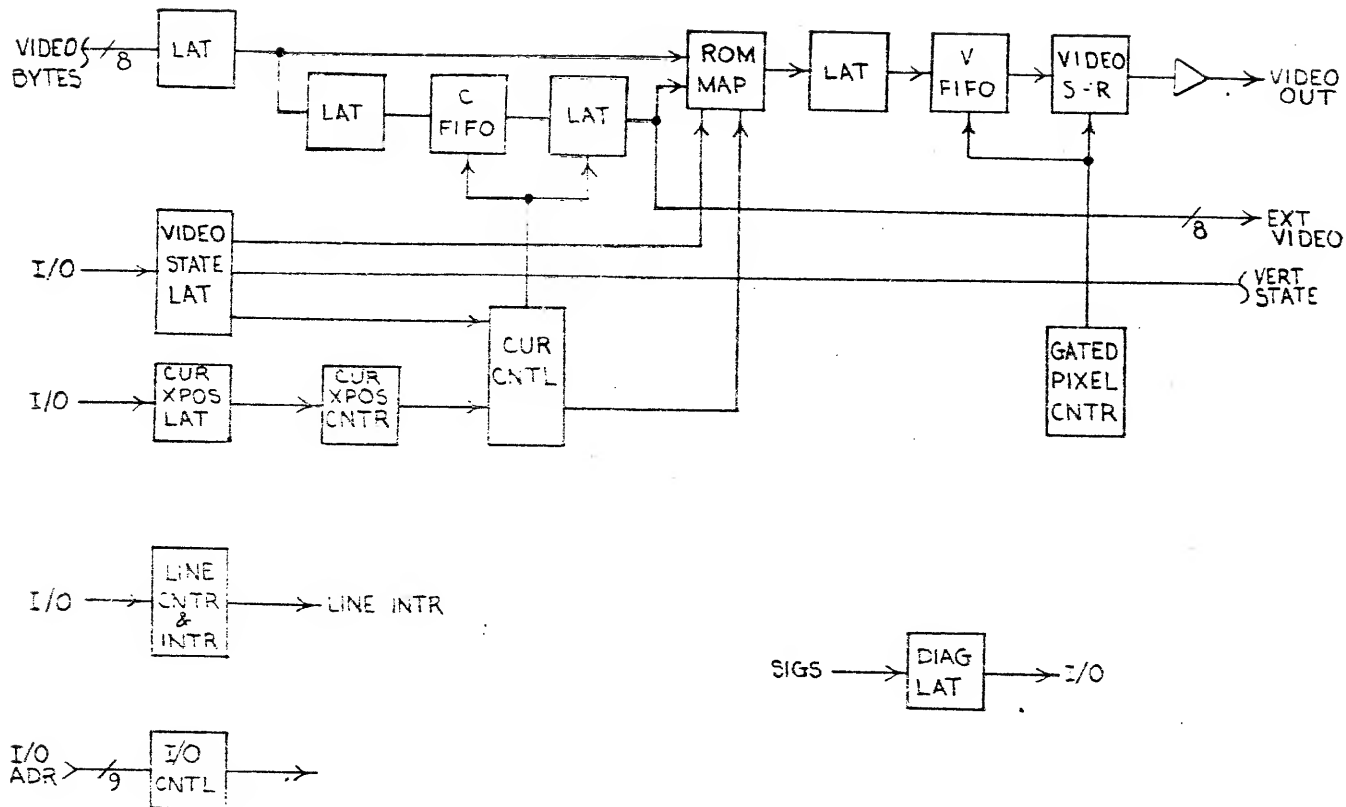
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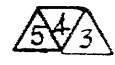
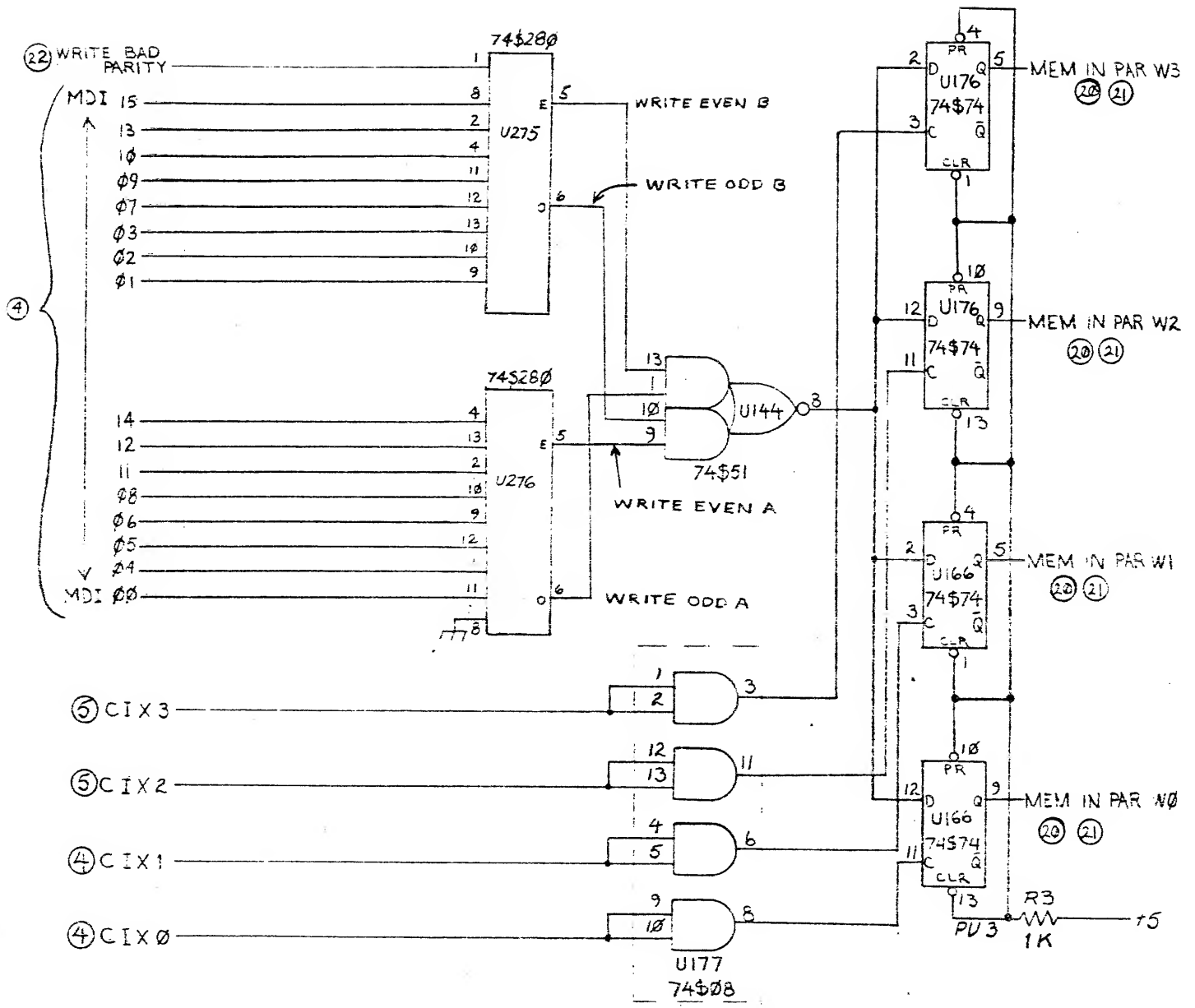
PERQ MEMORY (C) SCHEMATICS

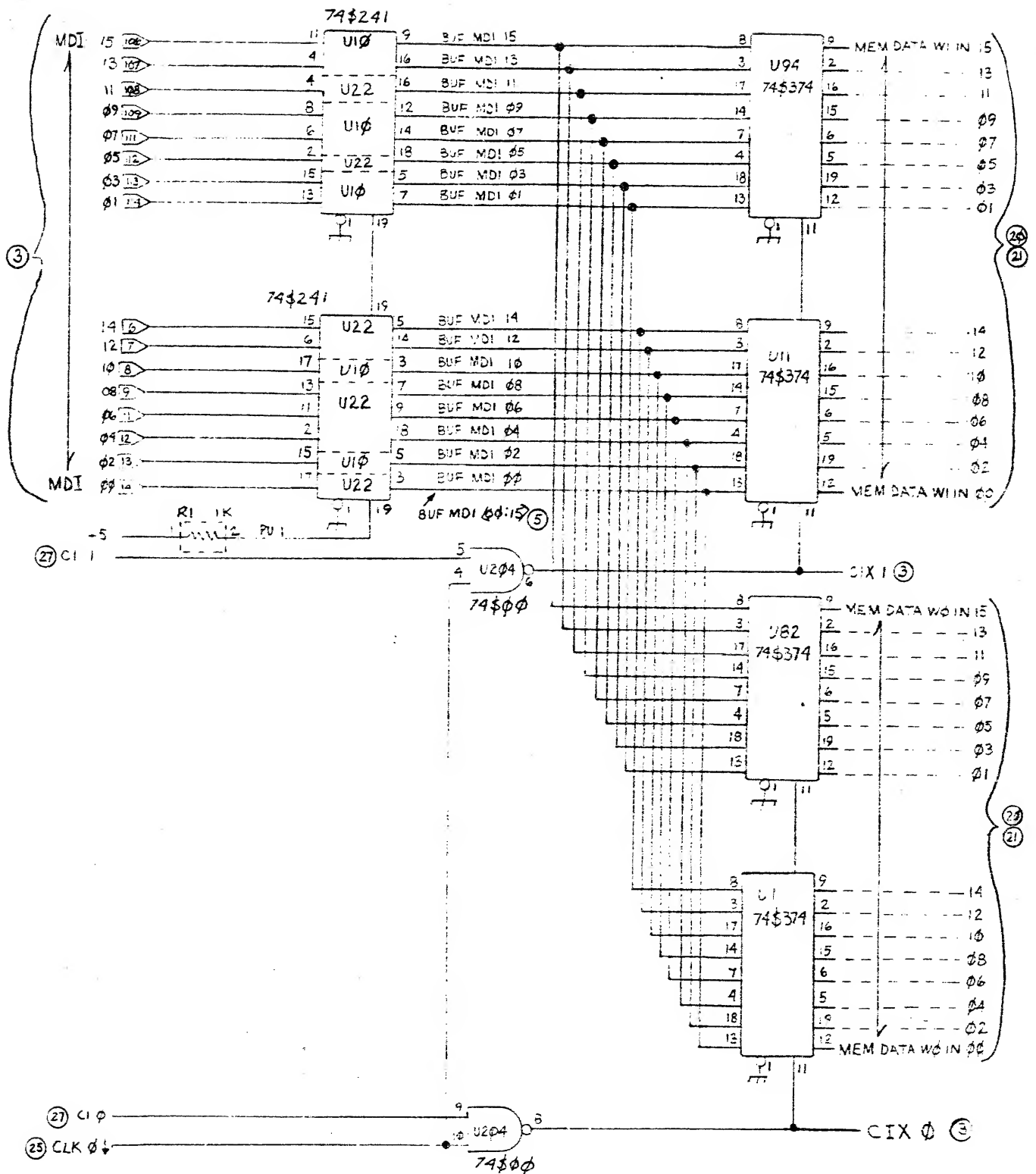
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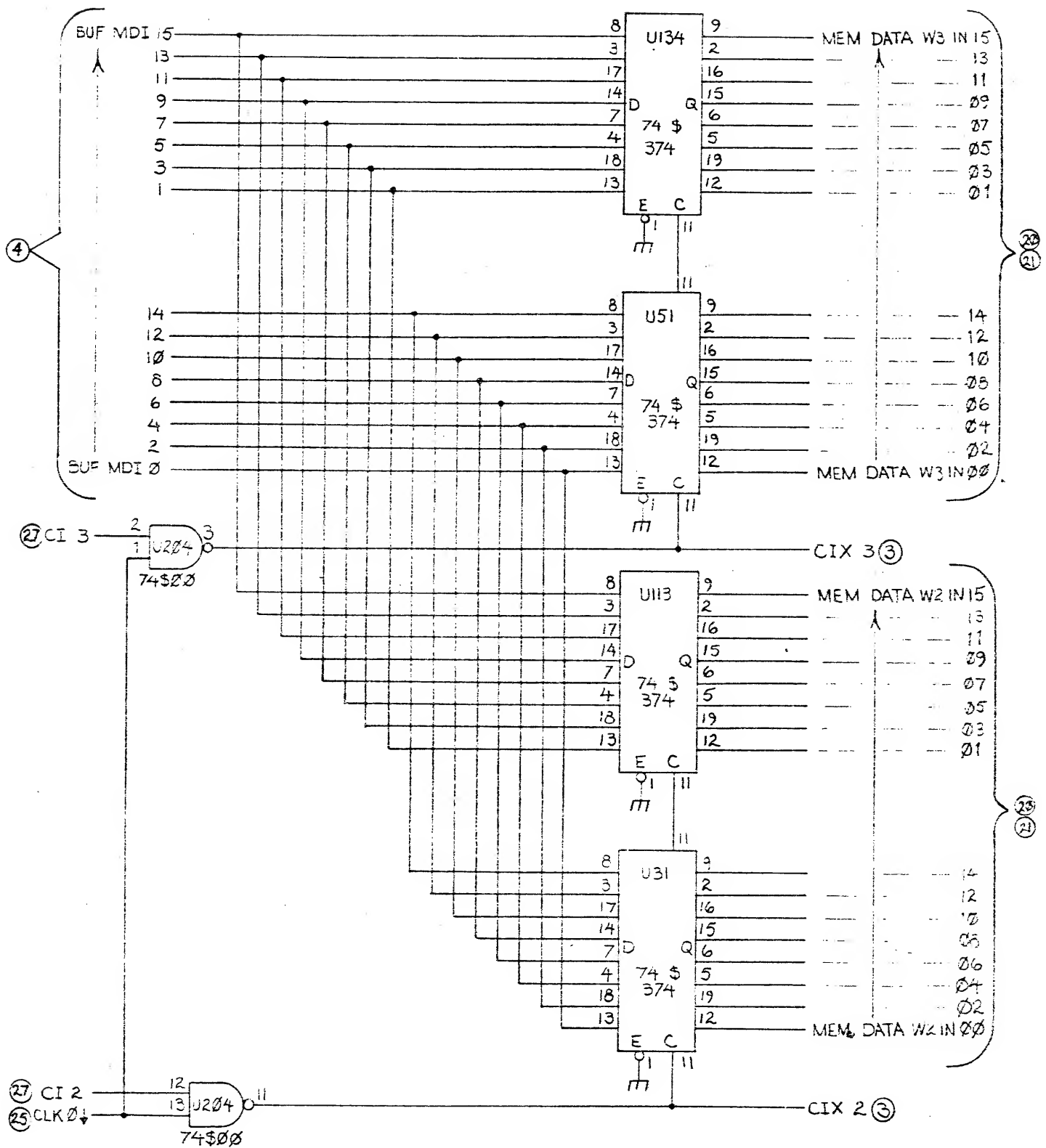
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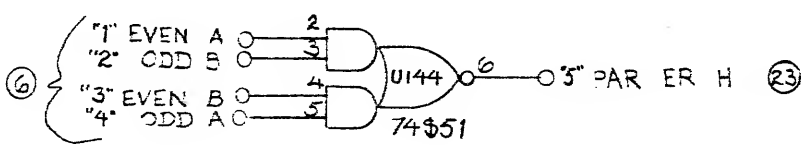
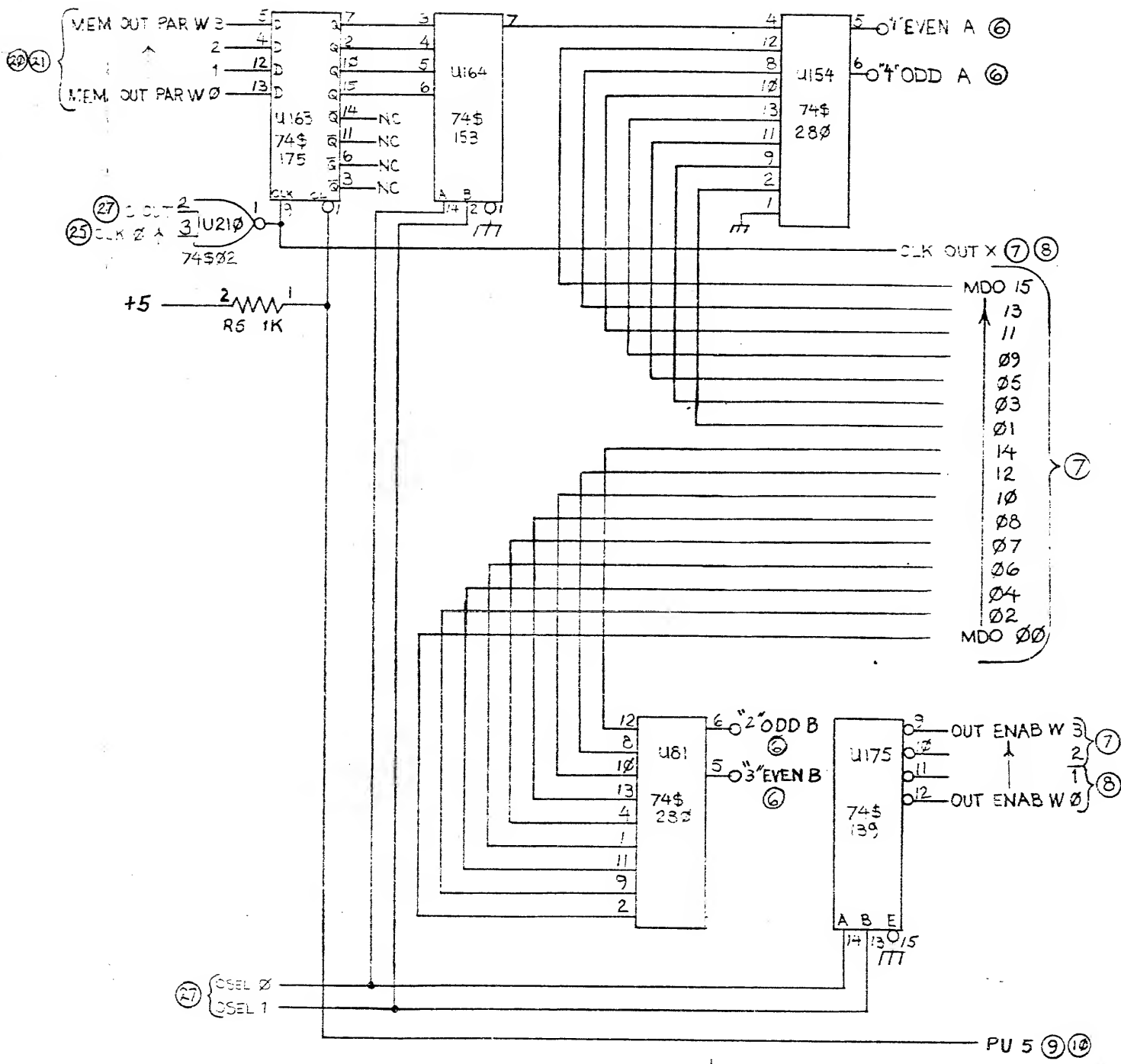






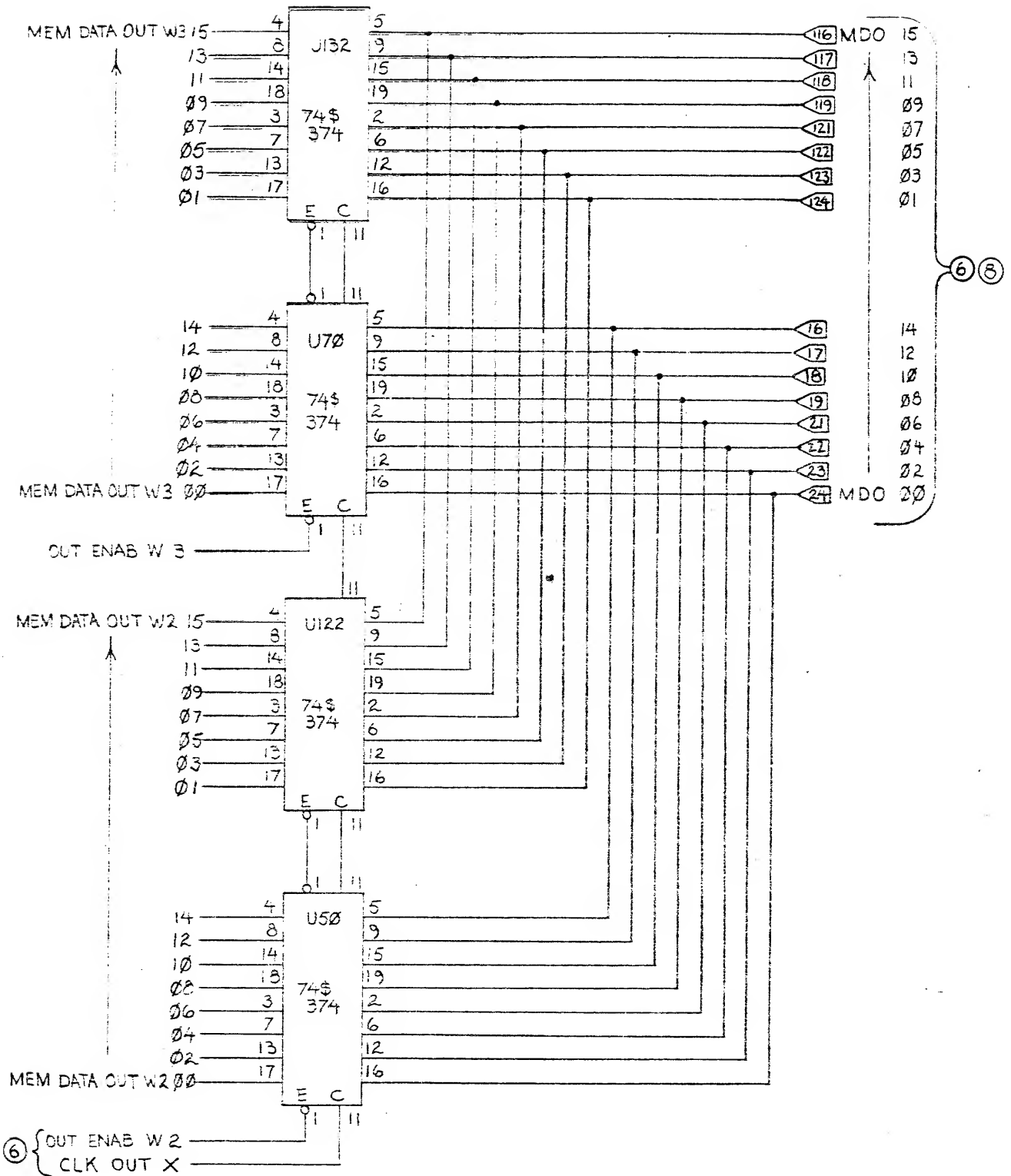


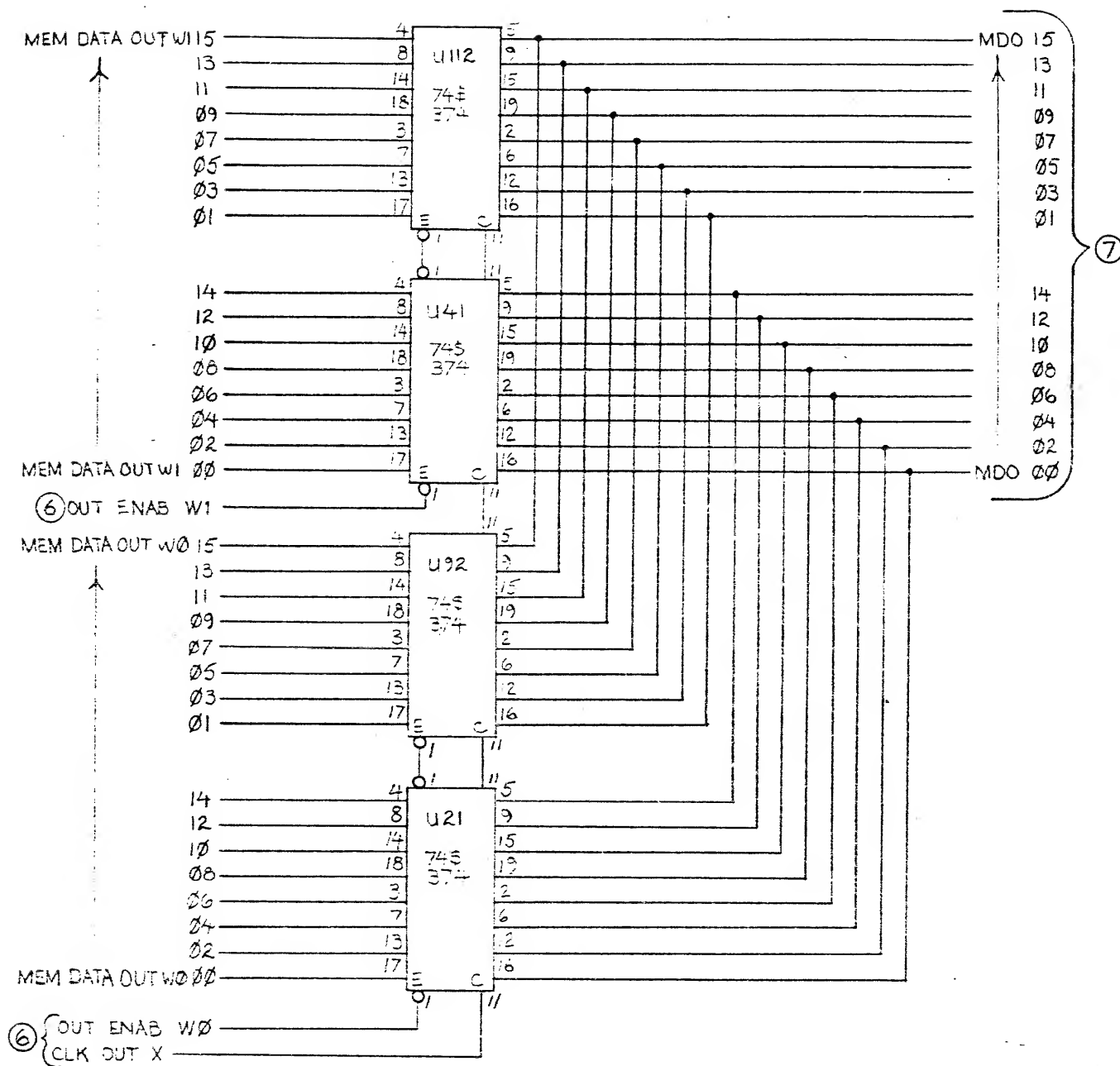


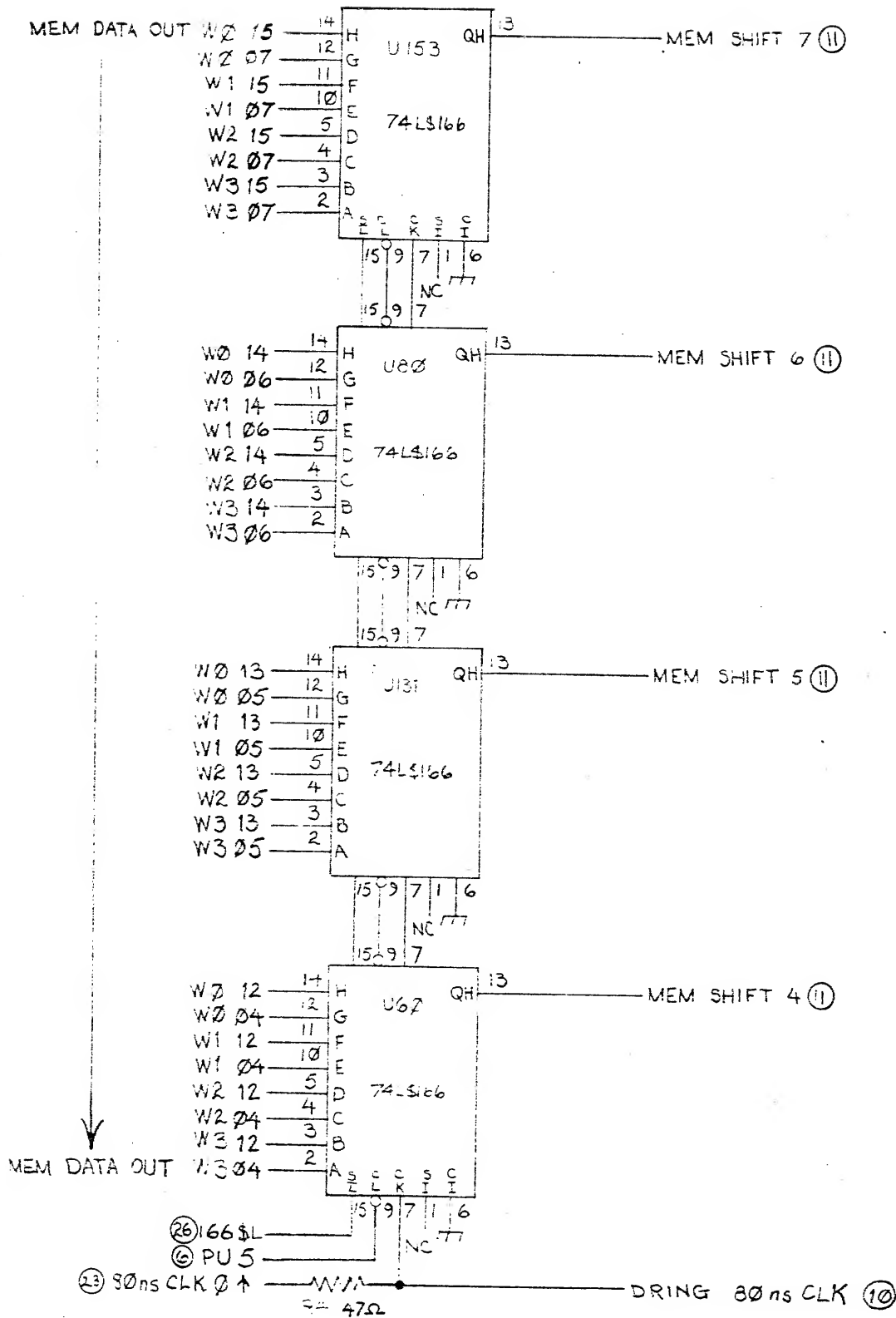


REV G 1/26/81 DIV
 REV F 12/30/80
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Three Rivers Computer	
DATA OUTPUT	PERQ-MEM-C
PRQ-SC-0490-H	6 27

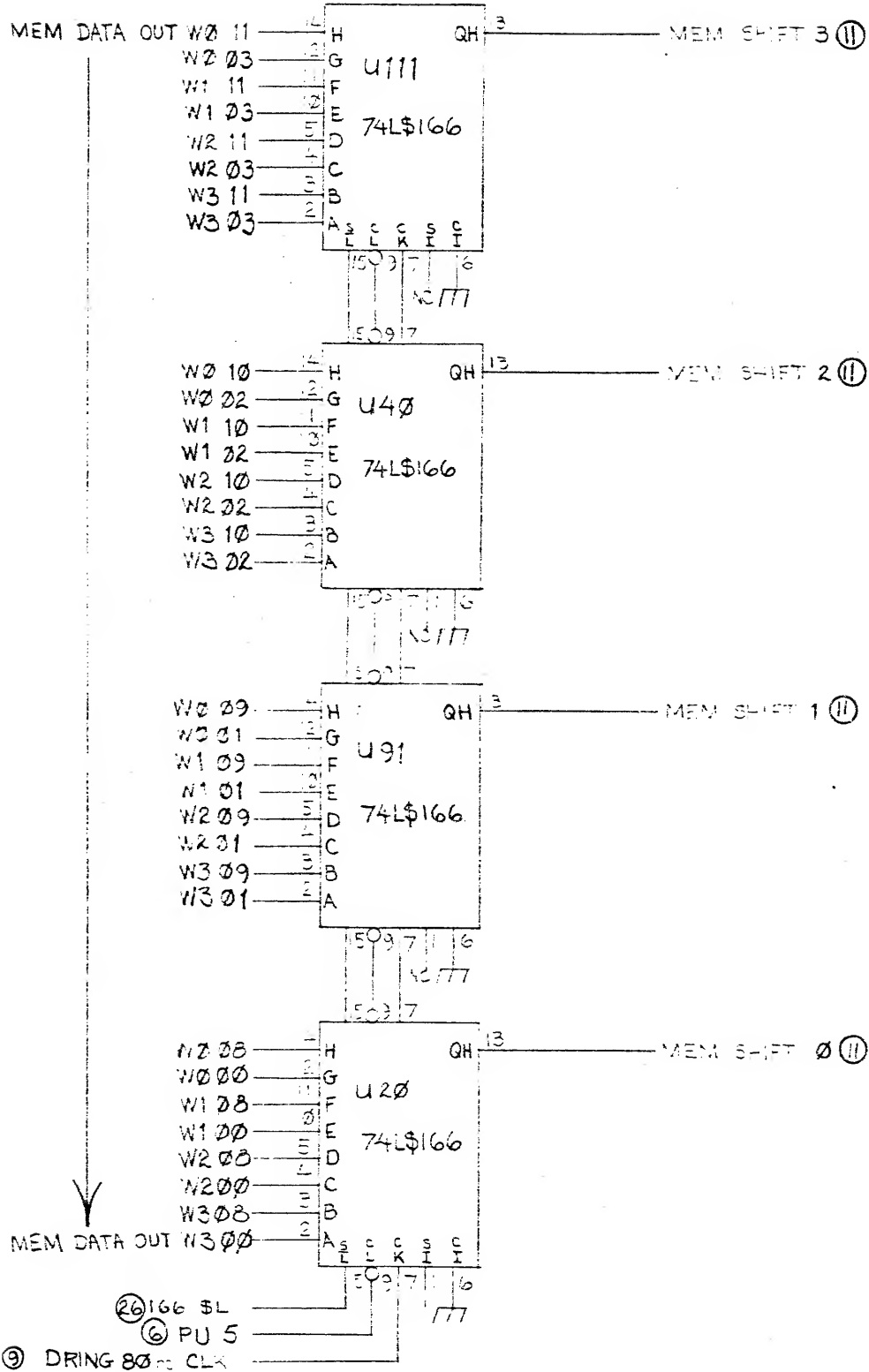






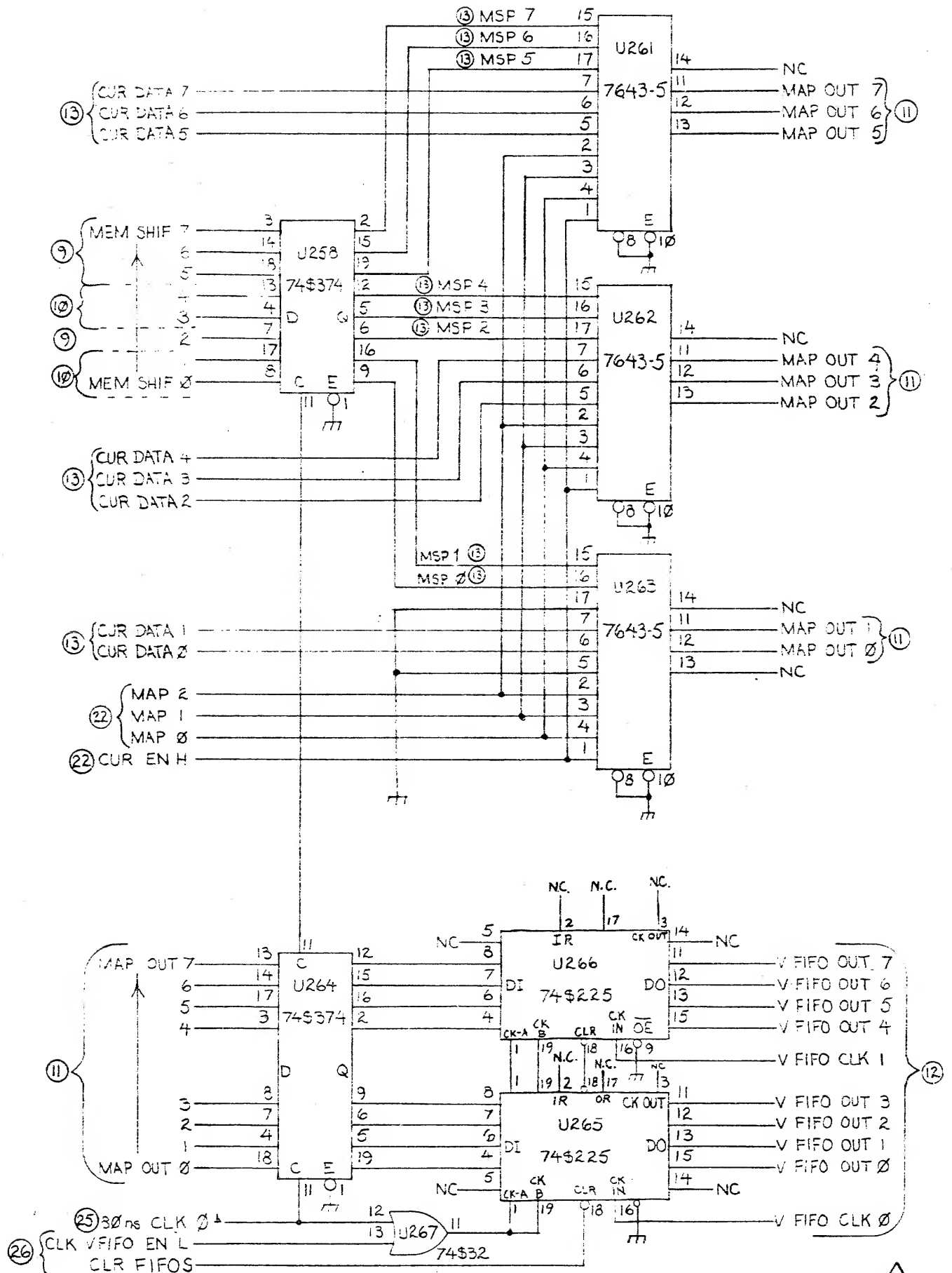
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REV E 7/15/80
REV D 7/11/80
REV C 5/18/80
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Three Rivers Computer			
MEM-SHIFT	PERG-MEM		
DESIGNED BY	REV. 3C-0493F	DATE	9-87



REV. D 7/11/80
REV. C 5/18/80
REV. E 7/15/80
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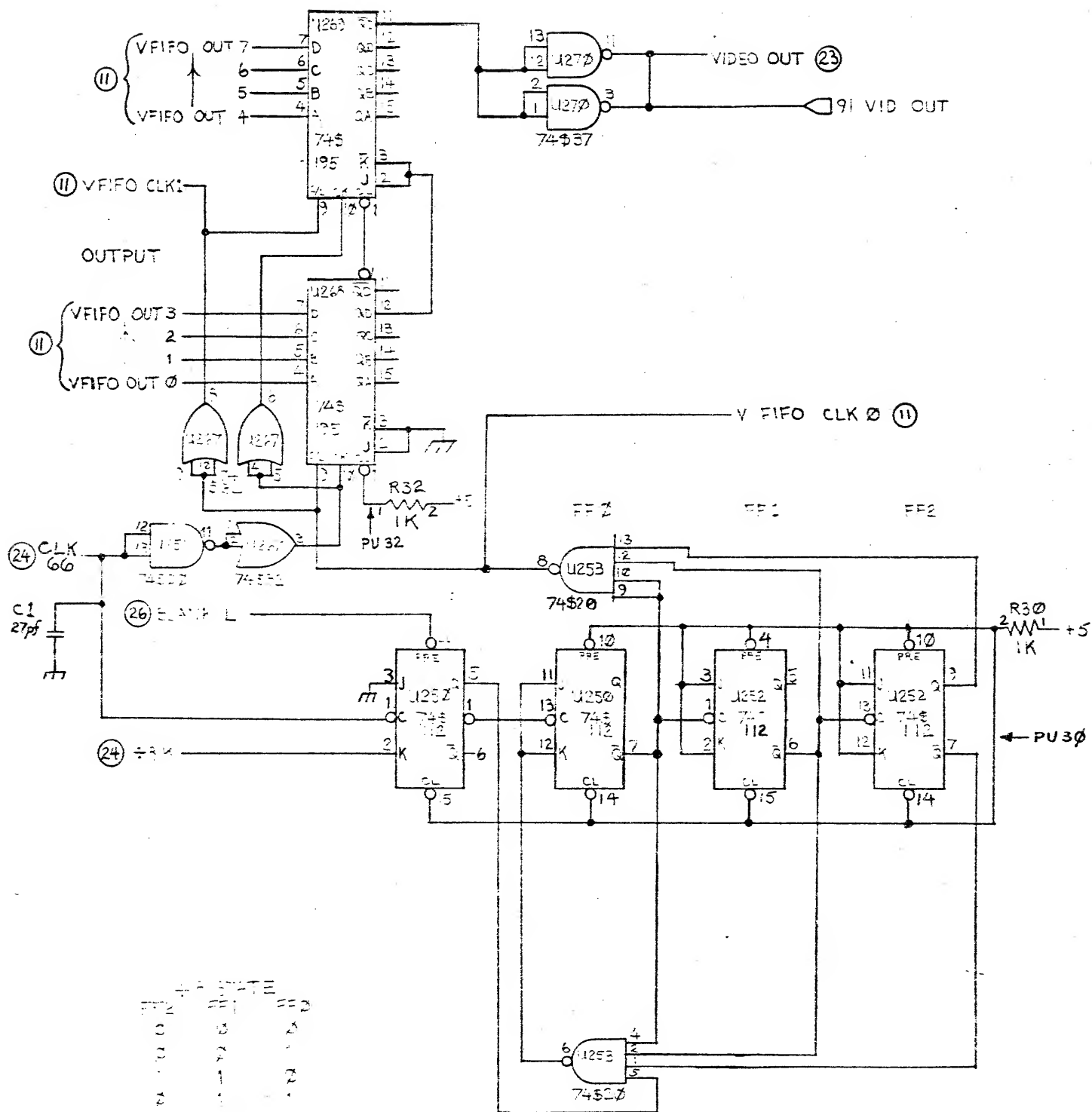
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REV. A 2/30/80
REV. C 3/5/80
REV. B 3/12/80



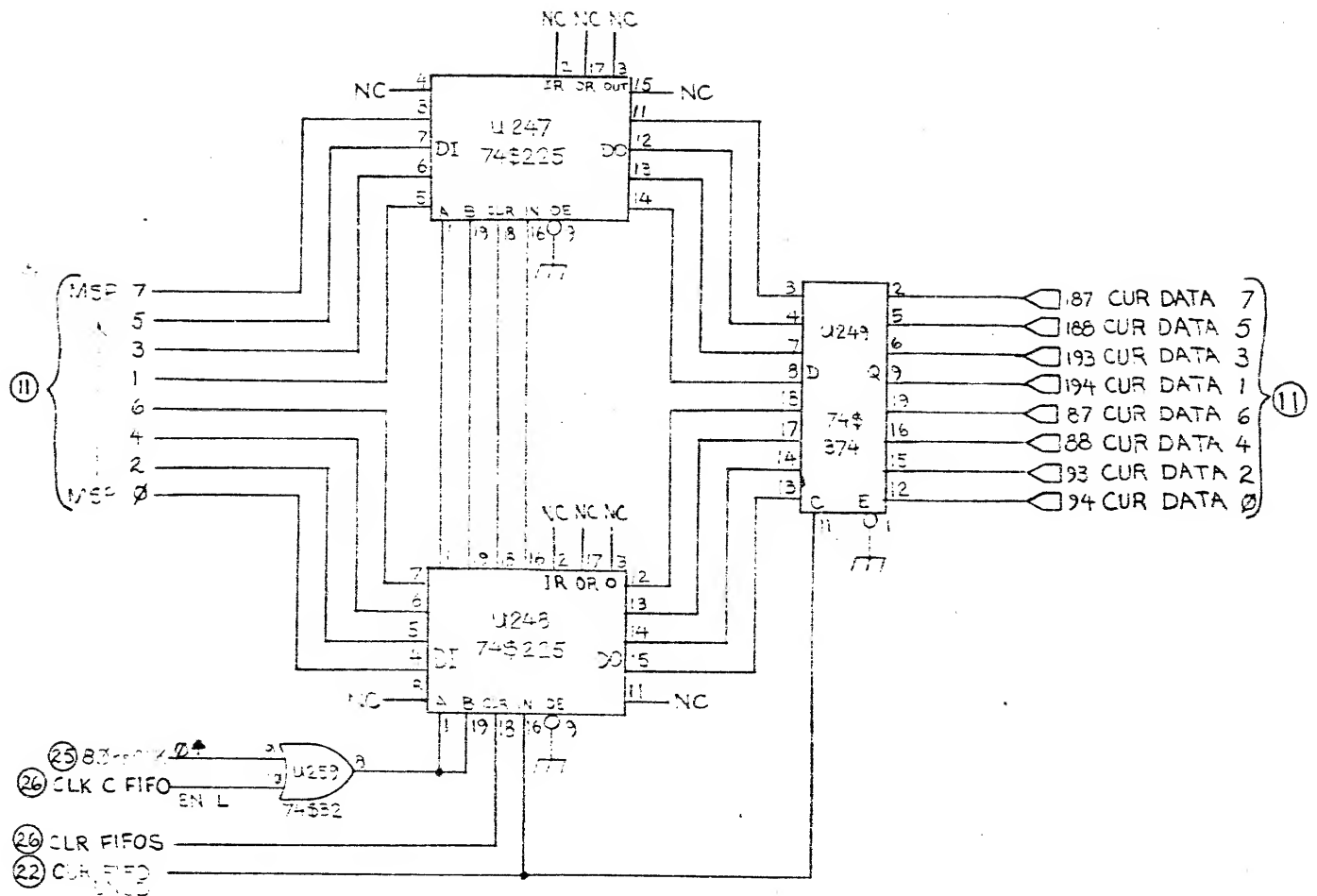
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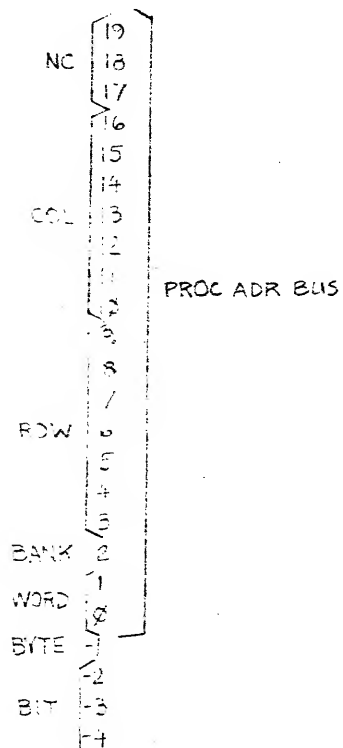
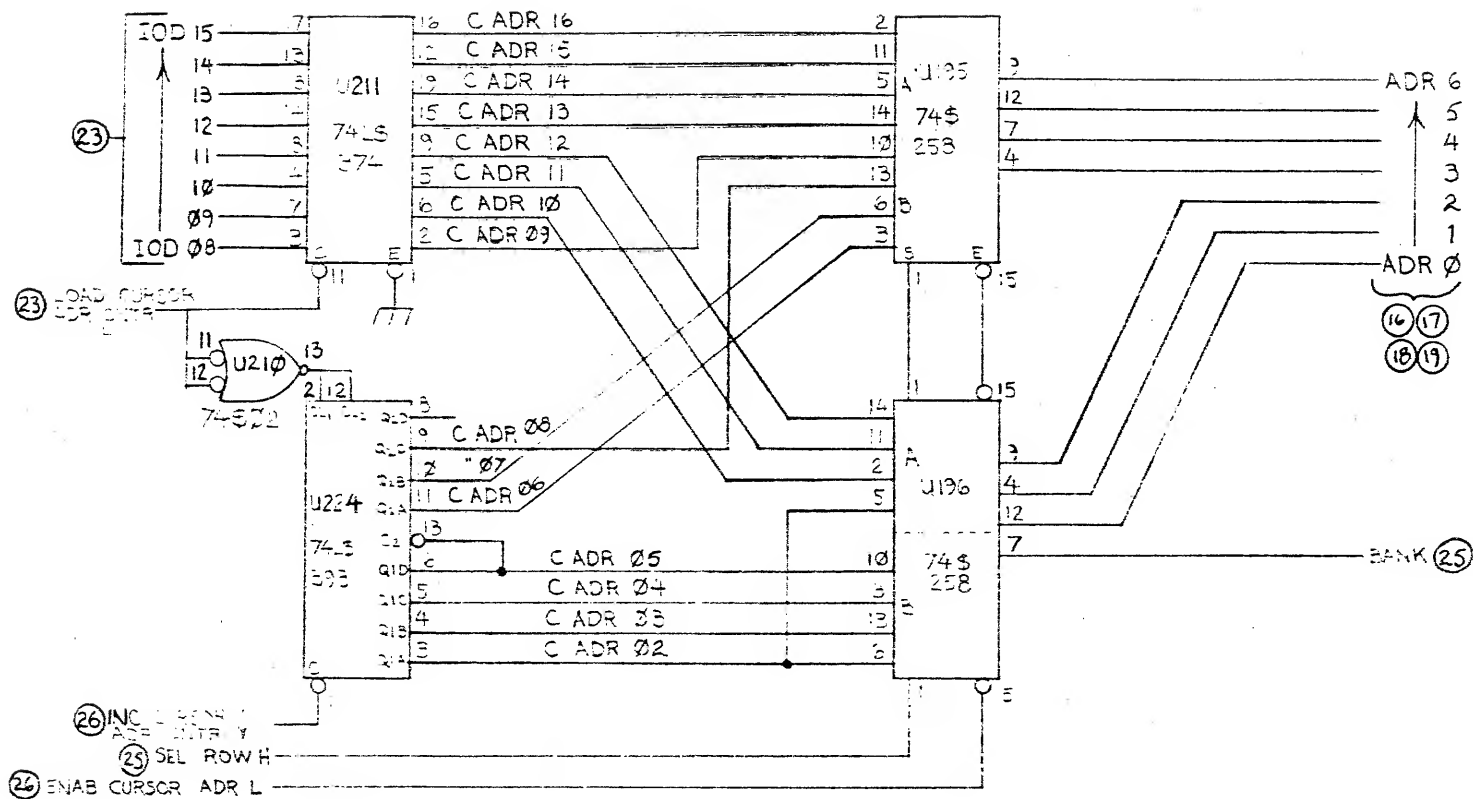


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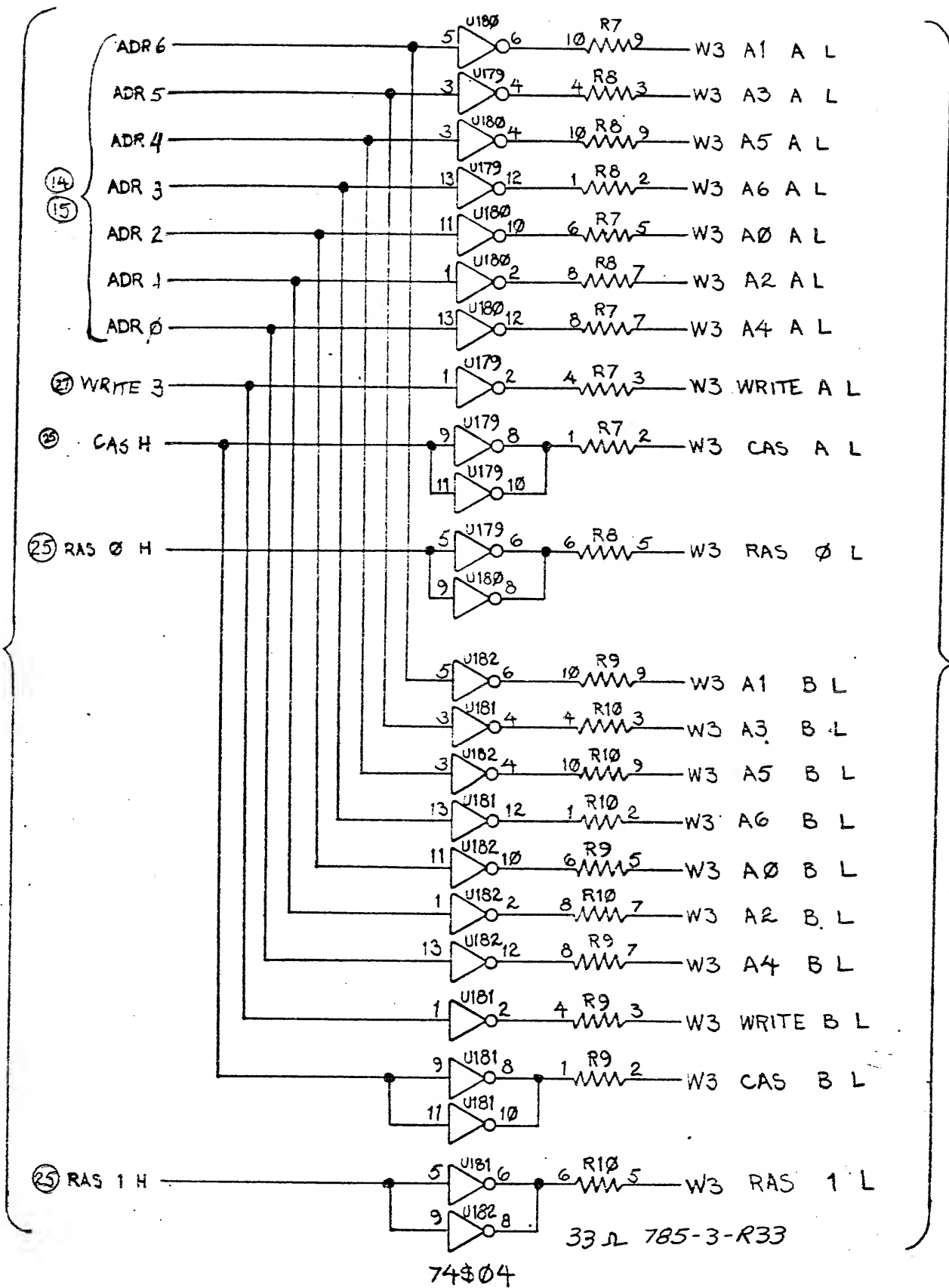
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 REV E 7/11/80 JB
 REV D 5/14/80 JB
 REV C 3/13/80 JB
 REV B 3/11/80 JB

Three Rivers Computer	
VIDEO OUTPUT	PERQ-MEM-C
DESIGNED BY	REV 0496-H
CHECKED BY	REV 12-27





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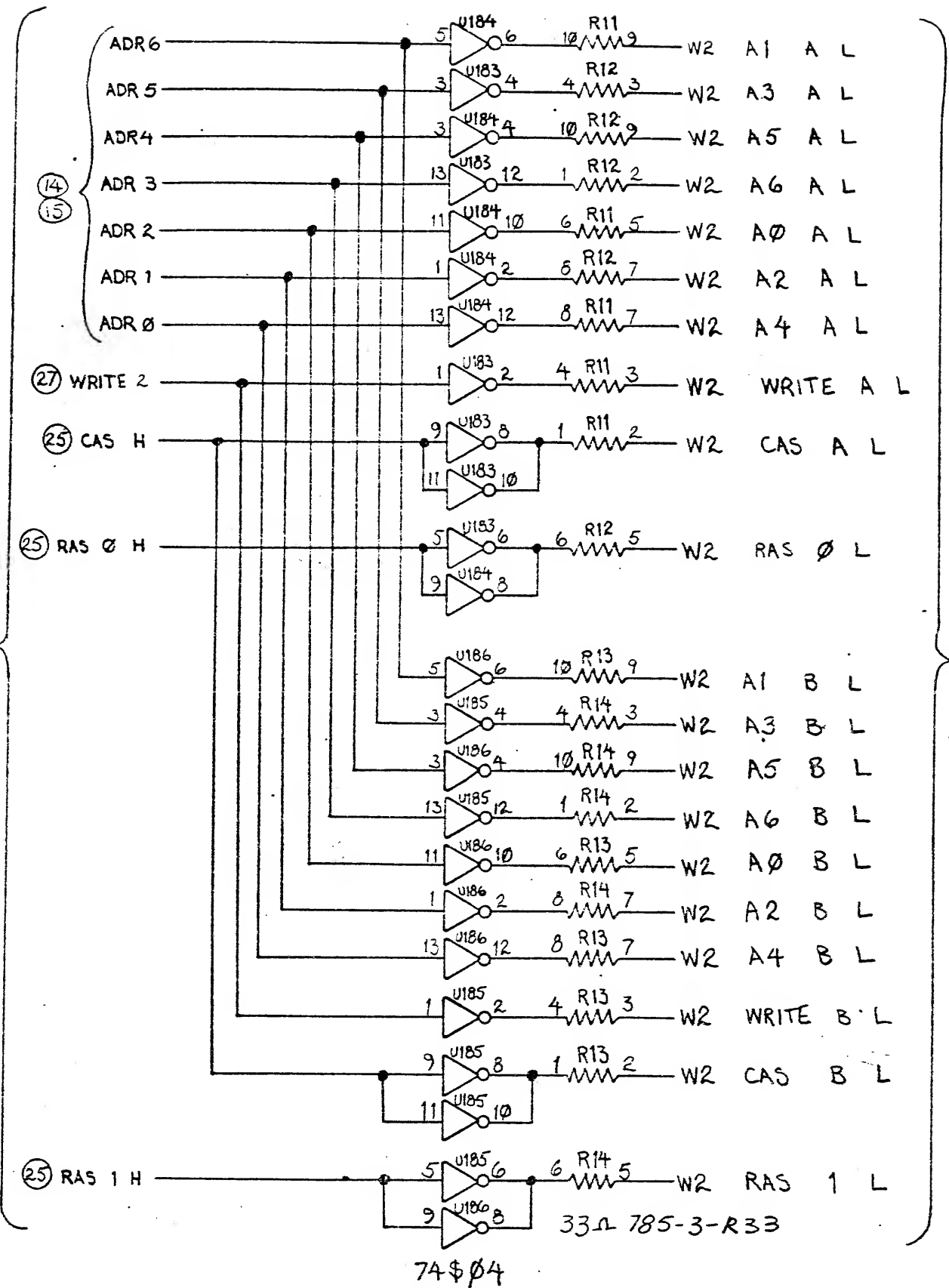


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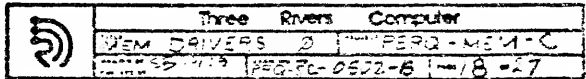
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REV B 3/14/80 SP

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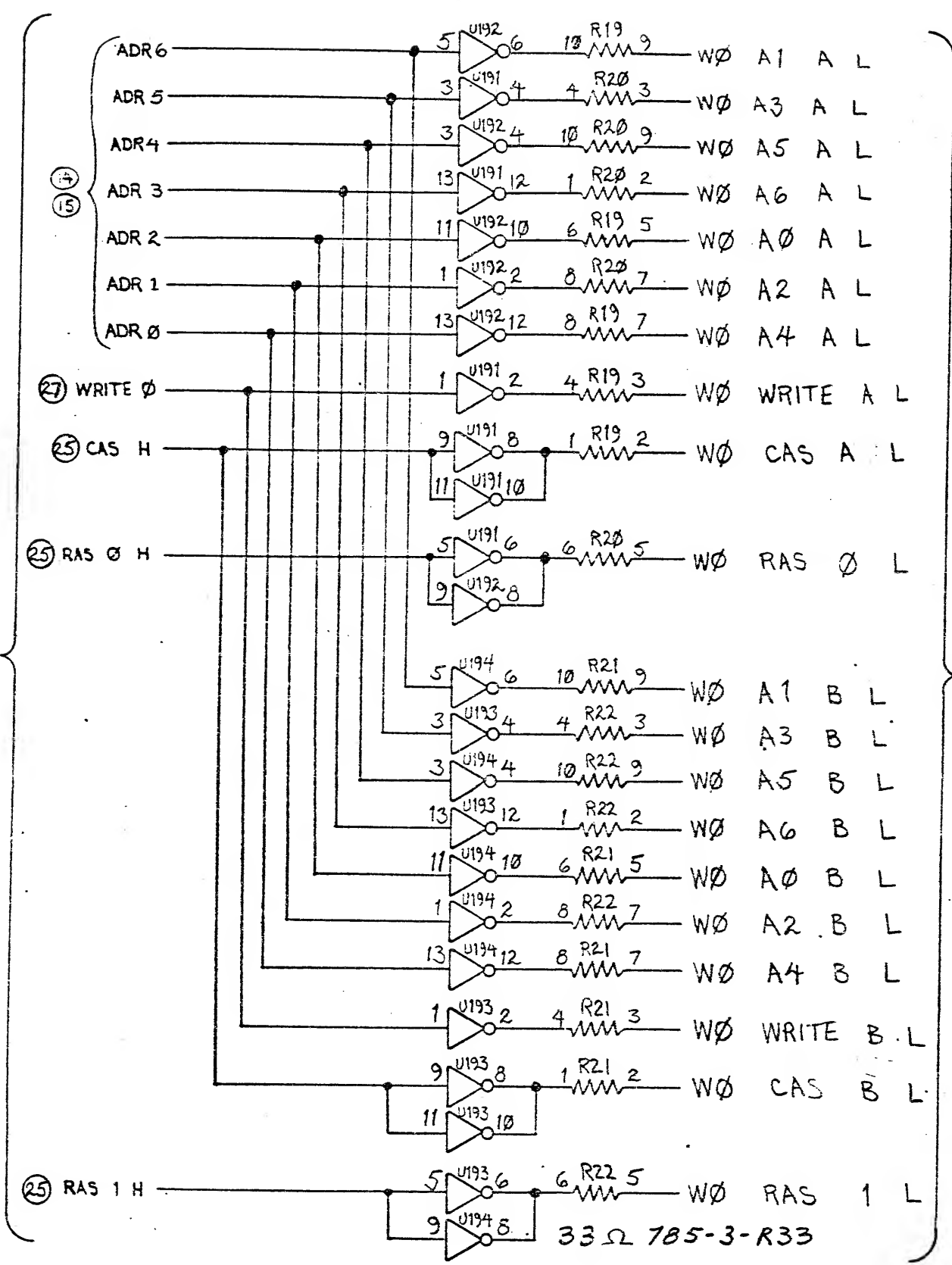


REV C 1/9/81 DIV
REV B 3/14/80 SP

Three Rivers Computer		
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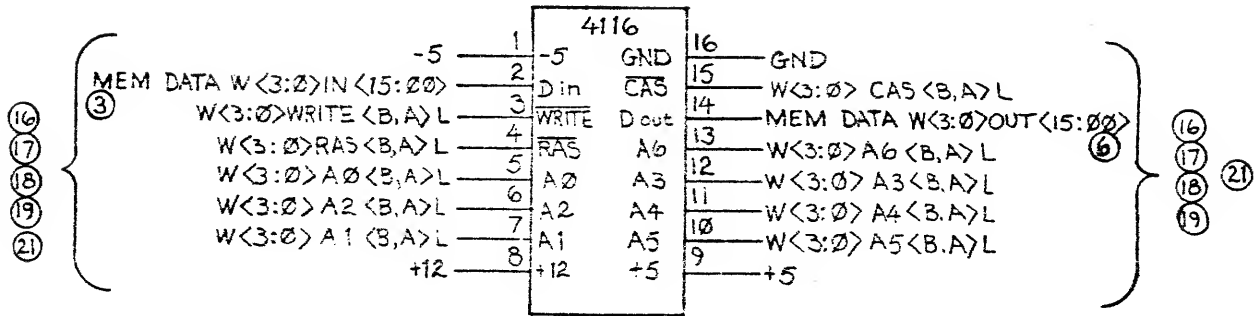
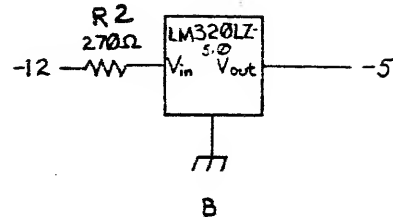
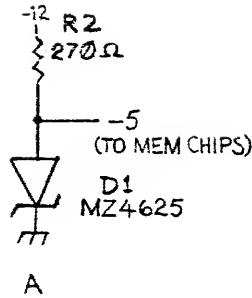
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REV.B 3/14/80

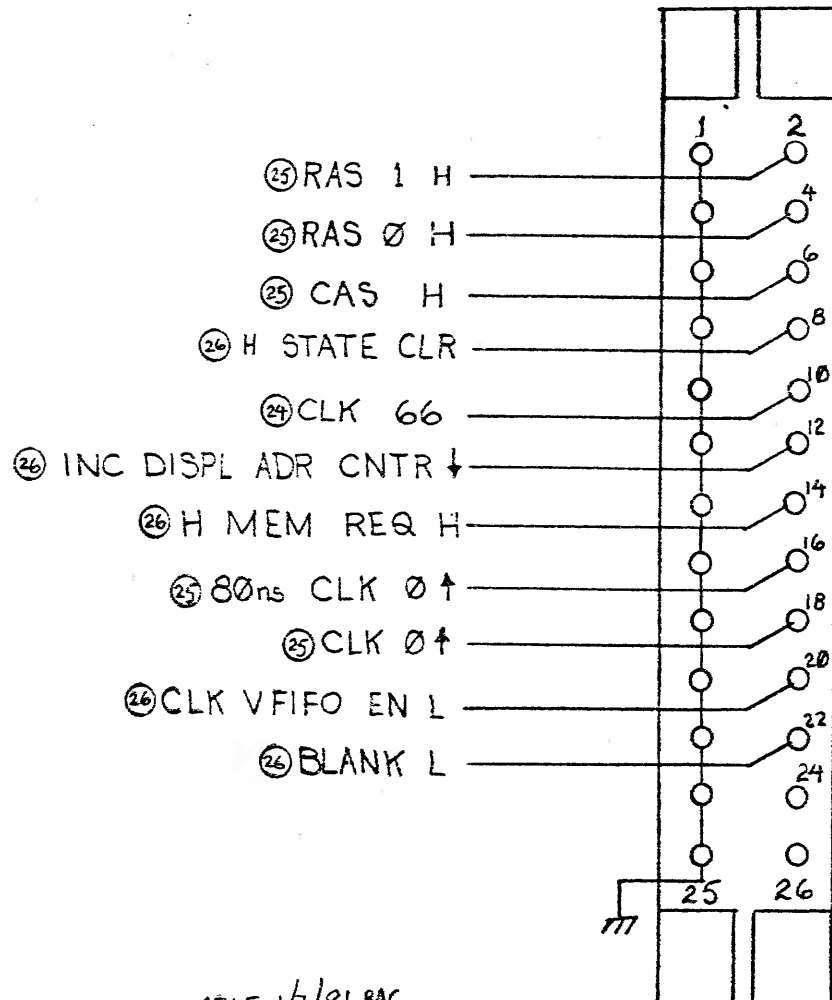
Three Rivers Computer
MEM DRIVERS 1 PERQ-MEM-C
SD-475 1000-0503 C-19-27

-5 VOLTS PRODUCED BY CIRCUIT "A" OR "B"



NOTE:

SEE PAGE (21) FOR RAM ARRAY



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REV D 12/22/80 RAC
REV C 7/17/80 SB
REV B 7/15/80 SB

Three Rivers Computer	
TYP RAM + JC	PEPQ-MEM-C
REV 1-1-82	REV 3C-0504-E
REV 20	REV 27

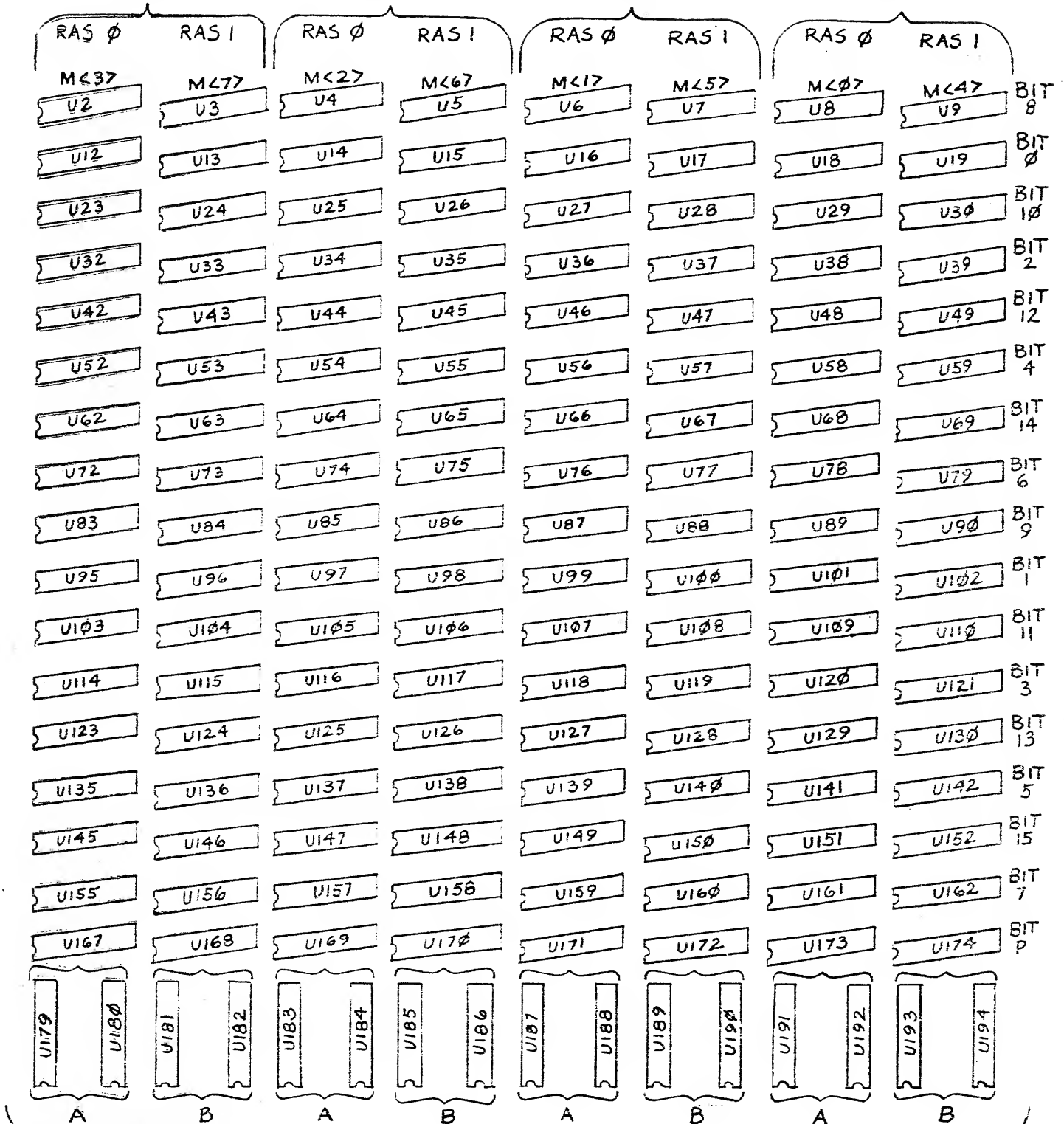
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WORD 2

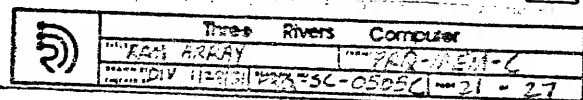
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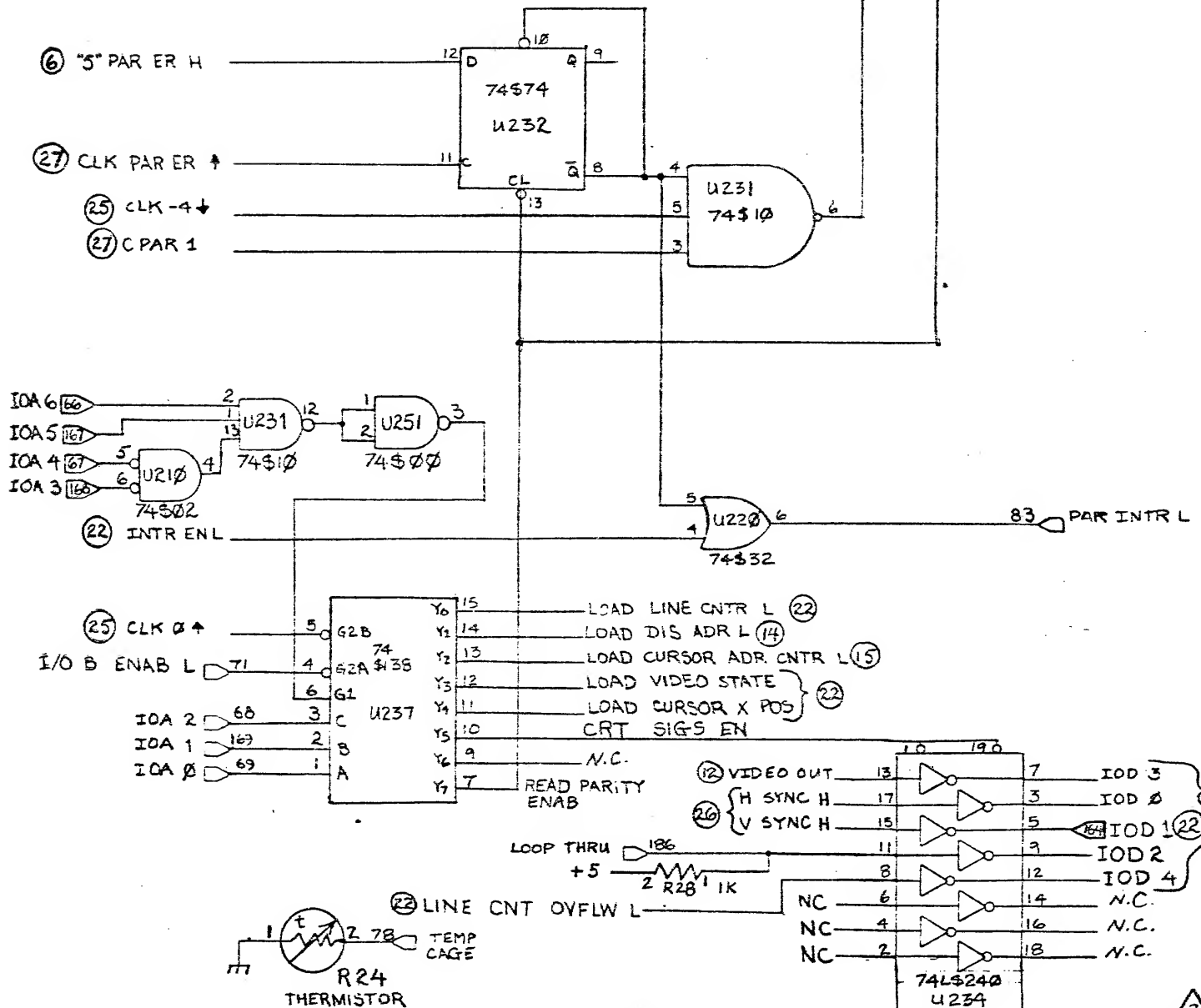
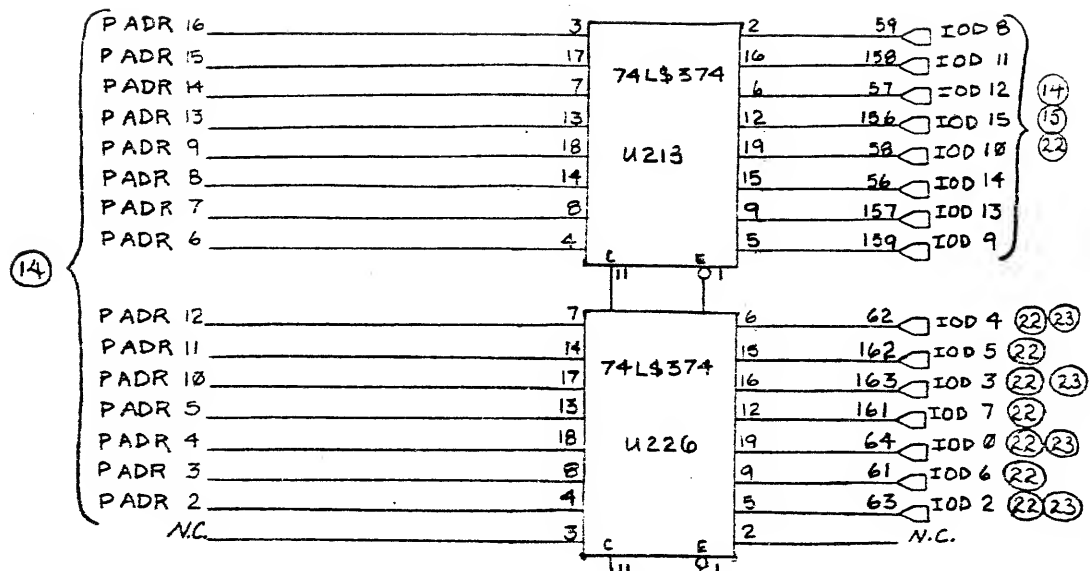
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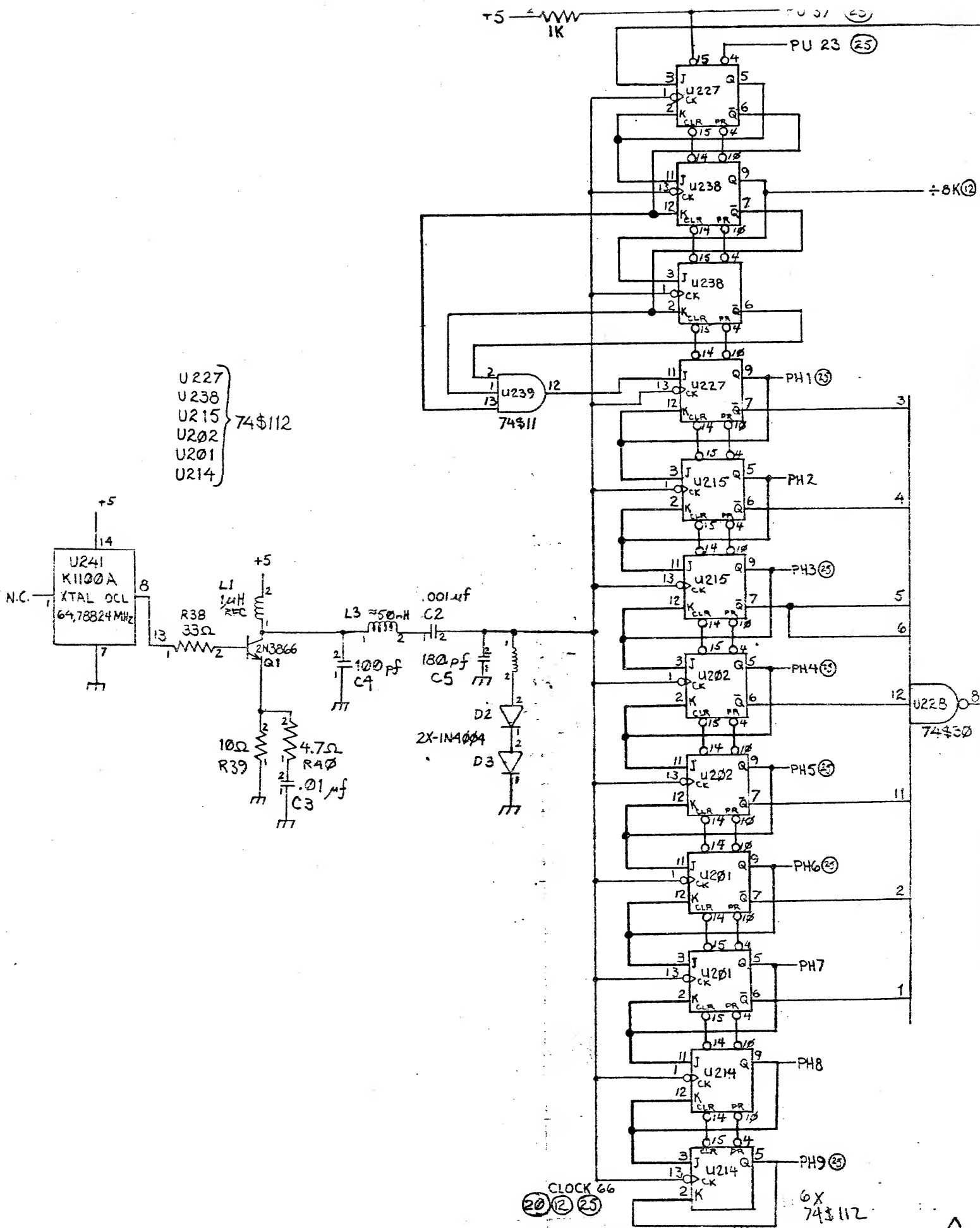


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	DRAWN BY <u>CS</u> OF <u>11/11/88</u> <u>100-8C-0506-A</u> <u>22-27</u>	

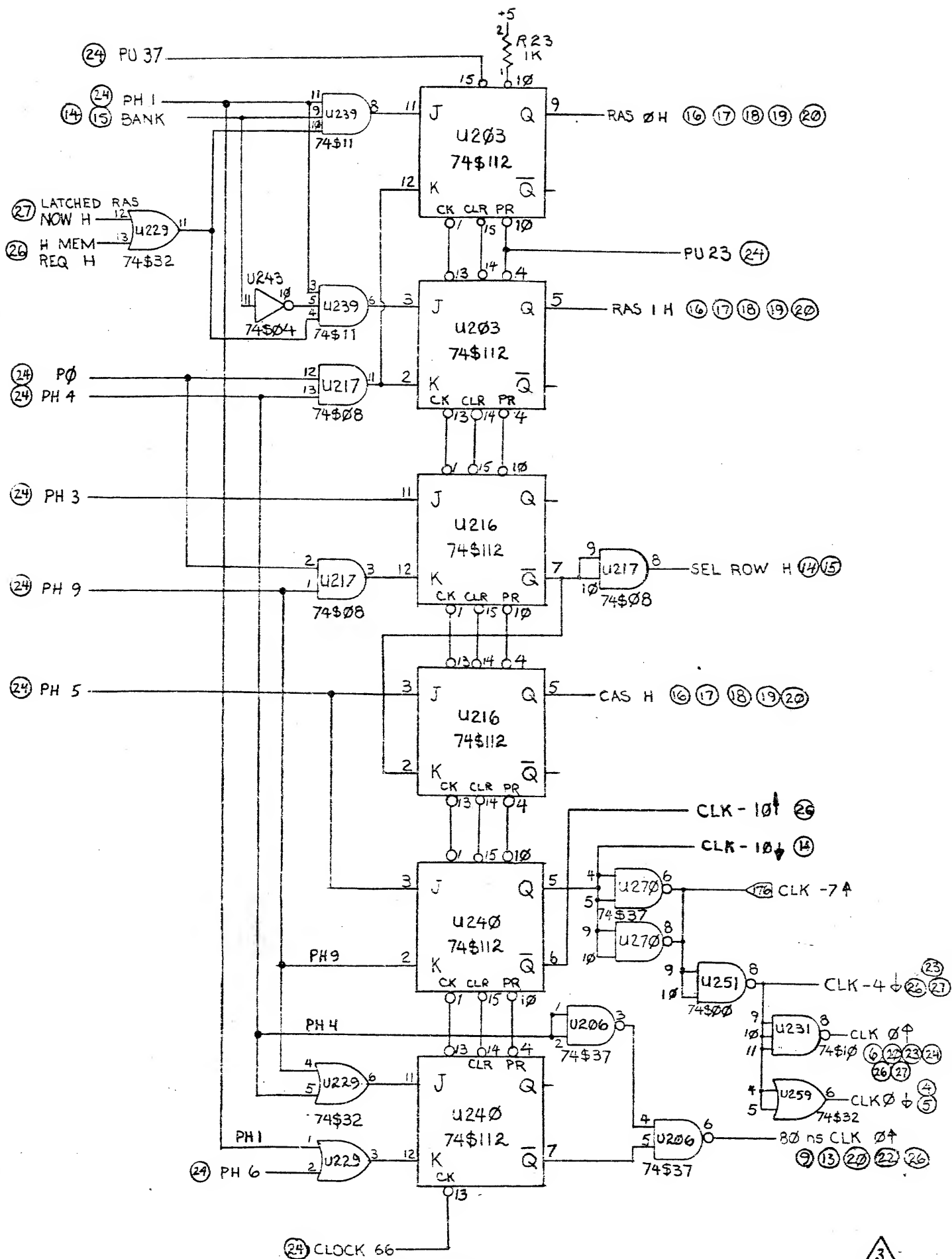


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 REV.E 5/16/80
 REV.D 5/9/80
 REV.C 4/8/80
 REV.B 3/14/80

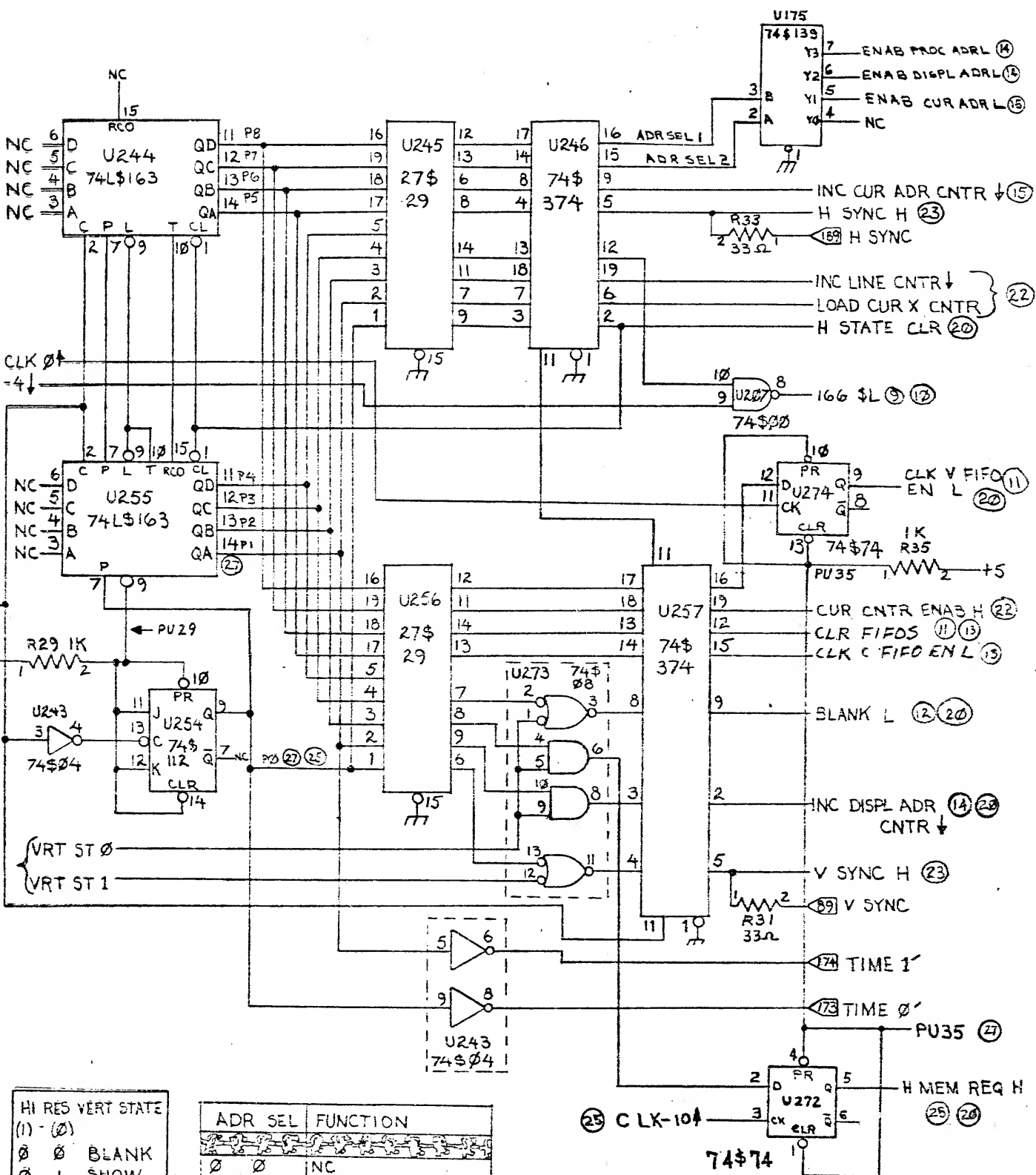
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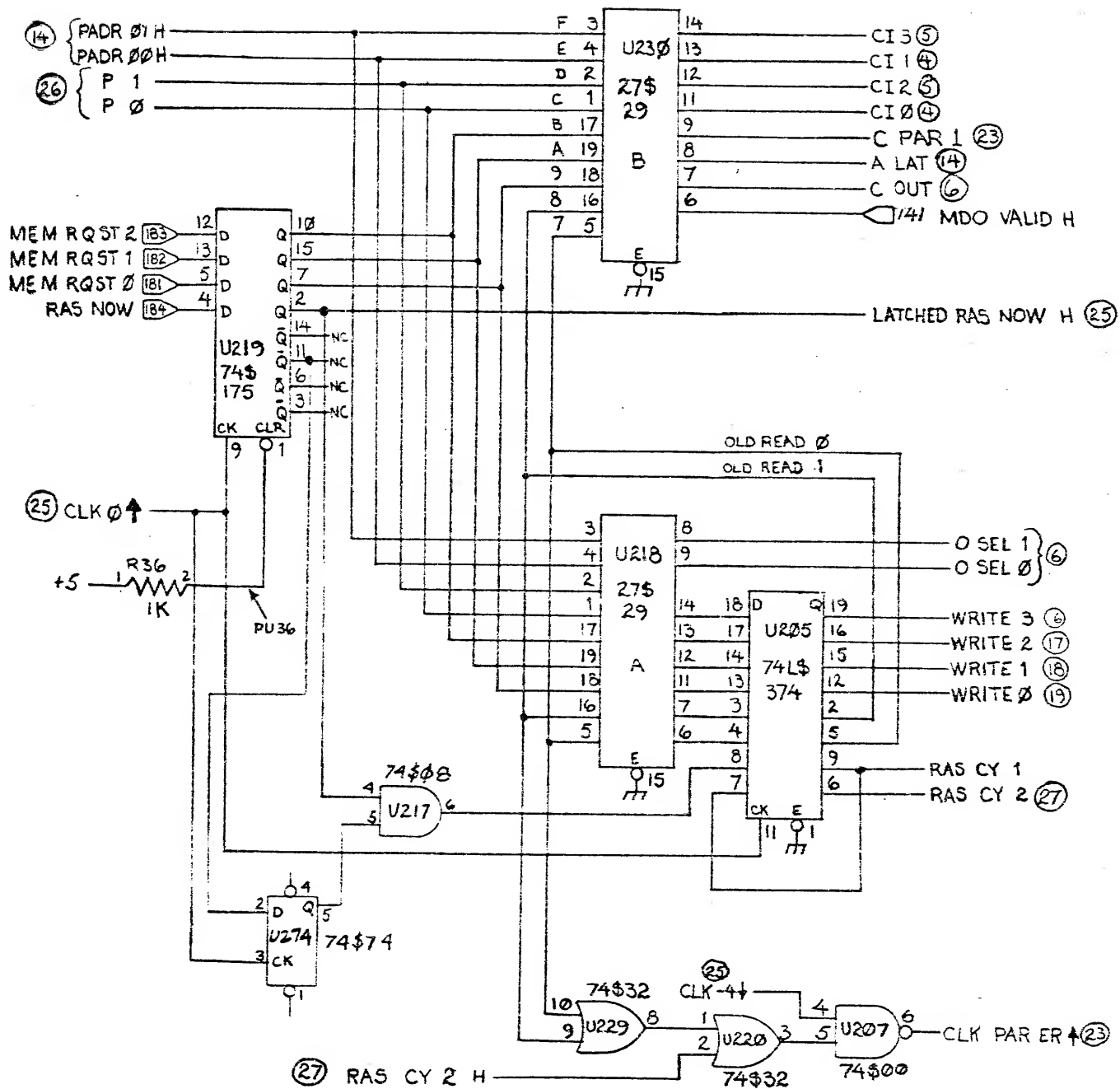


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DIV REV H 11/12/80 REV.E 7-11-80 SRS



REV. F 12/16/80 T.T.
 REV. E 7/15/80 S.D.
 REV. D 7/11/80 P.D.
 REV. C 5/16/80 S.D.
 REV. B 3/14/80 P.D.





REV E 7/15/80
 REV D 5/15/80
 REV C 5/19/80
 REV B 5/18/80

Three Rivers Computer	
MEM STATE	PER 12-MEM-C
REV B 5/18/80	REV C 5/19/80
REV D 5/15/80	REV E 7/15/80